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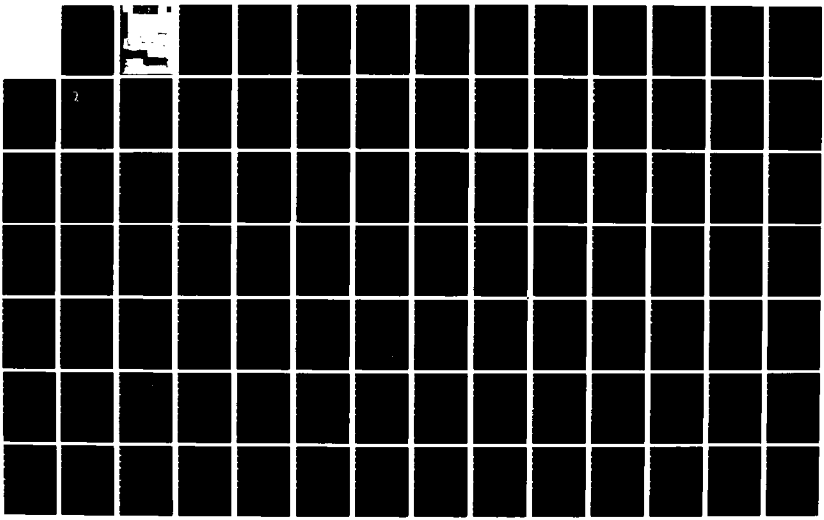

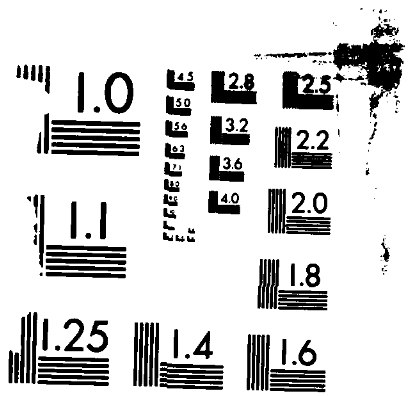

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REPORT DOCUMENTATION PAGE

1a. REPORT SECURITY CLASSIFICATION Unclassified	1b. RESTRICTIVE MARKINGS
2a. SECURITY CLASSIFICATION AUTHORITY	3. DISTRIBUTION AVAILABILITY OF REP Approved for public release; distribution is unlimited
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE	
4. PERFORMING ORGANIZATION REPORT NUMBER Report No. 27-771-100	5. MONITORING ORGANIZATION REPORT # FPO 7616
6a. NAME OF PERFORM. ORG. 6b. OFFICE SYM Crest Engineering, Inc.	7a. NAME OF MONITORING ORGANIZATION Ocean Engineering & Construction Project Office CHESNAVFACENGCOM
6c. ADDRESS (City, State, and Zip Code) Tulsa, OK	7b. ADDRESS (City, State, and Zip) BLDG. 212, Washington Navy Yard Washington, D.C. 20374-2121
8a. NAME OF FUNDING ORG. 8b. OFFICE SYM	9. PROCUREMENT INSTRUMENT INDENT # Contract No. N62477-76-C-0179 Modification No. P0001
8c. ADDRESS (City, State & Zip)	10. SOURCE OF FUNDING NUMBERS PROGRAM ELEMENT # | PROJECT # | TASK # | WORK UNIT ACCESS #

11. TITLE (Including Security Classification)
Fatigue Analysis East Coast Air Combat Maneuvering Range Offshore Kitty Hawk, North Carolina

12. PERSONAL AUTHOR(S)

13a. TYPE OF REPORT	13b. TIME COVERED FROM	TO	14. DATE OF REP. (YYMMDD)	15. PAGES
			76-09	

16. SUPPLEMENTARY NOTATION

17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if nec.
FIELD	GROUP	SUB-GROUP	Air Combat Maneuvering Range, Towers, Ocean construction, Fatigue analysis

19. ABSTRACT (Continue on reverse if necessary & identify by block number)

This report evaluates the fatigue limit strengths for the design of a tripod-type ocean structure for the East Coast air Combat Maneuvering Range Offshore Kitty Hawk, North Carolina.
The ocean structure investigated herein, a three-pile structure with (Con't

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22a. NAME OF RESPONSIBLE INDIVIDUAL Jacqueline B. Riley	22b. TELEPHONE 202-433-3881 | 22c. OFFICE SYMBO

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BLOCK 19 (Con't)

equilaterally spaced jacket legs, is installed in a water depth (MLW) of 105 feet. The structure is secured to the ocean floor permanently by tubular piles through the jacket legs into the seabed. A superstructure is attached to the piling above the jacket.

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FATIGUE ANALYSIS

EAST COAST AIR COMBAT MANEUVERING RANGE

OFFSHORE KITTY HAWK, NORTH CAROLINA

CONTRACT NO. N62477-76-C-0179

MODIFICATION NO. P0001

Report No. 27-771-100

Prepared for

NAVAL FACILITIES ENGINEERING COMMAND
DEPARTMENT OF THE NAVY
CHESAPEAKE DIVISION

By

CREST ENGINEERING, INC.
TULSA, OKLAHOMA

September 1976

TABLE OF CONTENTS

SECTION 1

INTRODUCTION

1.1 INTRODUCTION

This report evaluates the fatigue limit strengths for the design of a tripod-type ocean structure for the East Coast Air Combat Maneuvering Range Offshore Kitty Hawk, North Carolina.

The ocean structure investigated herein, a three-pile structure with equilaterally spaced jacket legs, is installed in a water depth (MLW) of 105 feet. The structure is secured to the ocean floor permanently by driving tubular piles through the jacket legs into the seabed. A superstructure is attached to the piling above the jacket.

1.2 ENGINEERING DATA

Engineering data which serves as the basis for the fatigue analysis are listed as follows:

A. Environmental Conditions

MLW Depth	105 feet
Wave and Current Characteristics	
Provided in Glenn and Associates Report: NORMAL WAVES, AND STORM WIND, TIDE, WAVE AND CURRENT CHARACTERISTICS, AND WAVE FORCES: VICINITY 36^{o}N, 75^{o}W, OFFSHORE KITTY HAWK, NORTH CAROLINA, May 1976	
Drag Coefficient above MLW	$C_D = 0.74$
Drag Coefficient below MLW	$C_D = 1.02$
Inertial Coefficient	$C_M = 1.34$
Fouling Thickness below MLW	2 inches

B. Major Structural Dimensions

True Batter of Piling & Jacket Leg	1:6
Width at Jacket Base (Mudline)	64 feet
Width at Jacket Top (Work Point Level)	29 feet
Pile Out Side Diameter	42 inches
Jacket Leg Out Side Diameter	45.5 inches
Upper Deck Area	362.5 sq. ft.
Equipment Deck Area	591.5 sq. ft.

Height of Structure (From Mudline to Upper Deck) 180 feet

C. Material

All structural shapes or fabricated tubular goods are ASTM A-36 Structural Steel except for the material used for the joint cans which is ASTM A-633, Grade A.

1.3 PROCEDURES OF ANALYSIS

The significant parameters relative to the fatigue strength analysis of the ocean structures are, structural geometry, member sizes, wave characteristics and wave height distribution, dynamic response of the structure, and the yield strength of the material.

The geometry of the idealized platform structure* under consideration is given in Section 2. This structure is subjected to a sequence of lateral loads produced by waves of varying heights and periods. A total of 12 waves with wave heights ranging from 2 feet to 57 feet at 5 feet increment are analyzed. The relationship of structural base shear to wave force is expressed graphically in Section 3. Transfer functions relating the wave height and the base shear of the structure are established accordingly.

Reference 4 presents closed-form method of analysis for determining the fatigue damage attributing ocean waves to structures having dynamic amplification characteristics of negligible magnitude. The aforementioned technique is applied in Section 4 to evaluate the fatigue limit stress. In the process of numerical computations, four waves with wave heights of 7, 17, 27 and 42 feet, respectively, are selected to produce lateral loads on the idealized platform structure. Evaluation of fatigue limit stress for two joints in the structure are considered for the cases of consistent appearance of

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* The structural geometry and member properties were developed in Report No. 27-771-96.

severe storms and of the infrequent hurricane effects on the fatigue strength over the lifetime of the structure. The predicted fatigue life of the structure is then presented in Section 5.

In Section 6 are given the safe nominal brace stress range and safe punching shear stress range for fatigue. Both stress ranges are expressed by means of Modified Goodman Diagram.

1.4 SUMMARY

The results of the study on the fatigue analysis may be drawn as follows:

Fatigue Limit Stress:

Punching Shear Stress Range (K-Joint)	11,523 psi
Punching Shear Stress Range (T-Joint)	6,100 psi
Nominal Brace Stress Range	22,000 psi

Fatigue Life:

Fatigue Life Controlled by Punching Shear Stress (K-Joint)	140 years
Fatigue Life Controlled by Punching Shear Stress (T-Joint)	20 years
Fatigue Life Controlled by Nominal Brace Stress	741 years

1.5 PERSONNEL RESUMES

The personnel whose resumes follow were actively engaged in this project.

CREST OFFSHORE, INC.

Chingmiin (Charlie) Chern

Senior Engineer

University	Degree	Year
National Taiwan University	Bachelor of Science Civil Engineering	1961
North Dakota State University	Master of Science Civil Engineering	1966
Lehigh University	Ph. D. Civil Engineering	1969
Tulsa University	Graduate Study in Business Administration-Management	1974

Societies, Licenses, and Other Activities:

Member American Society of Civil Engineers
Member International Association of Structural and Bridge Engineers
Member American Society of Engineering Education
Registered Professional Engineer in Oklahoma

Experience:

1973 to Present — Crest Offshore, Inc.

Senior Civil Engineer

Engaged in the feasibility studies, structural analysis and design of offshore structures, equipment supports and other various types of petroleum related civil engineering works. Assignments include:

... Evaluation of engineering designs from other agencies.
... Analysis and design of offshore structures for oil industry.
... Analysis and design of supports and foundations for onshore refinery facilities.
... Development of a sequence of computer programs for the analysis of offshore structures.

Chingmiin (Charlie) Chern

Senior Civil Engineer

Experience Continued:

1969 to 1973 — North Dakota State University

Associate Professor of Civil Engineering

Engaged in full-time lecture instruction for civil engineering (graduate school division) and construction management. Also served as consultant to local industry (undergraduate school division) in the area of computer applications in engineering.

1966 to 1969 — Fritz Engineering Laboratory

Research Assistant

Assisted in the design and testing of various types of steel structures.

1966 — North Dakota State Highway Department

Highway Engineer

Responsible for construction surveying.

1965 — U.S. Forest Service

Assistant Crew Chief

Assisted in surveying responsibilities.

SECTION 2

ELEVATIONS AND PLANS

2.1 INTRODUCTION

The idealized platform structure shown in this section was obtained from Report NO. 27-771-96.

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By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-5-76 Job No. 27-771-100 Calculation Elevations & Plans

2.2 ELEVATIONS AND PLANS

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Sheet 2.03 of 16

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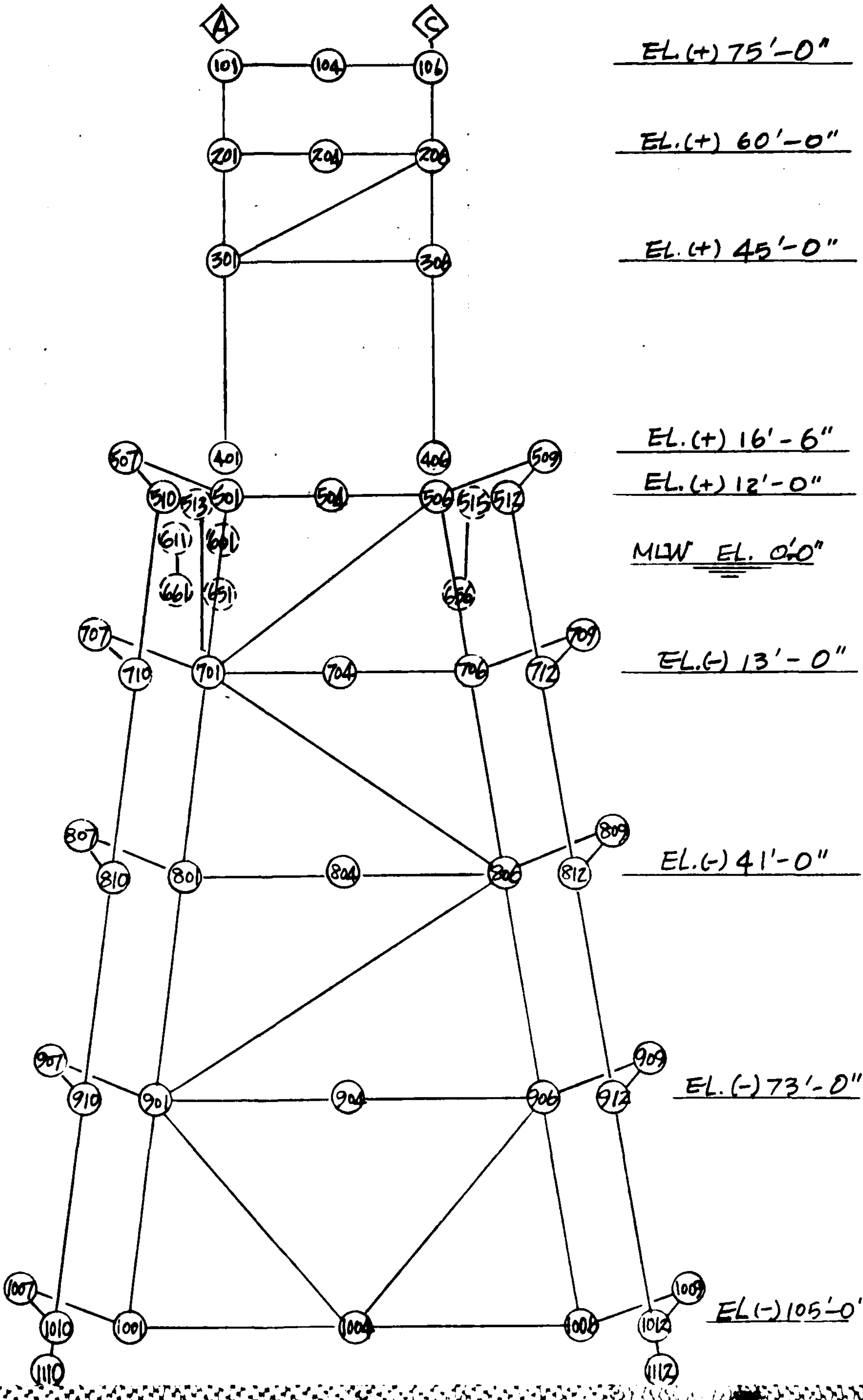
Date 8-5-76 Job No. 27-771-100 Calculation Elevations & Plans



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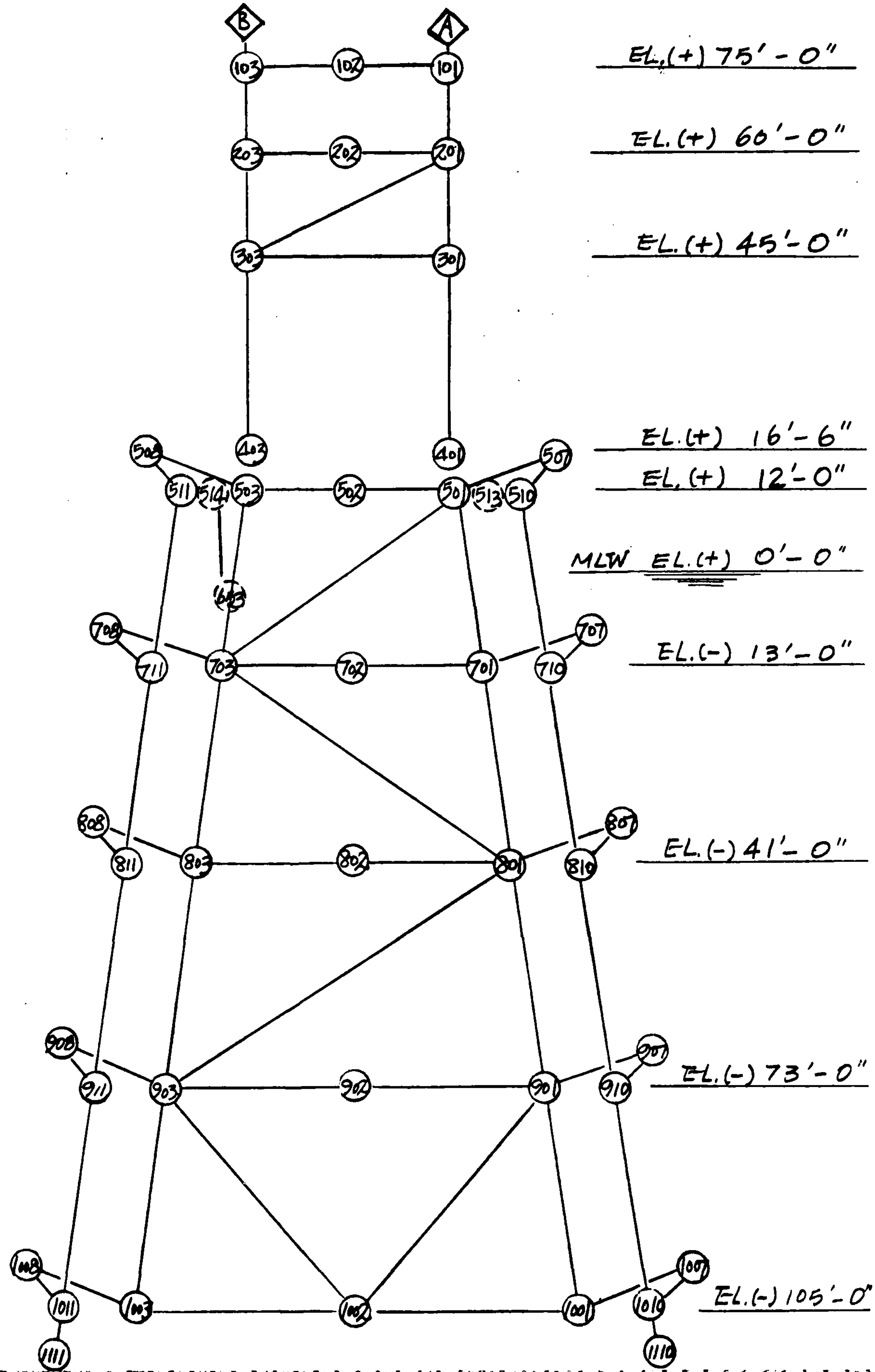

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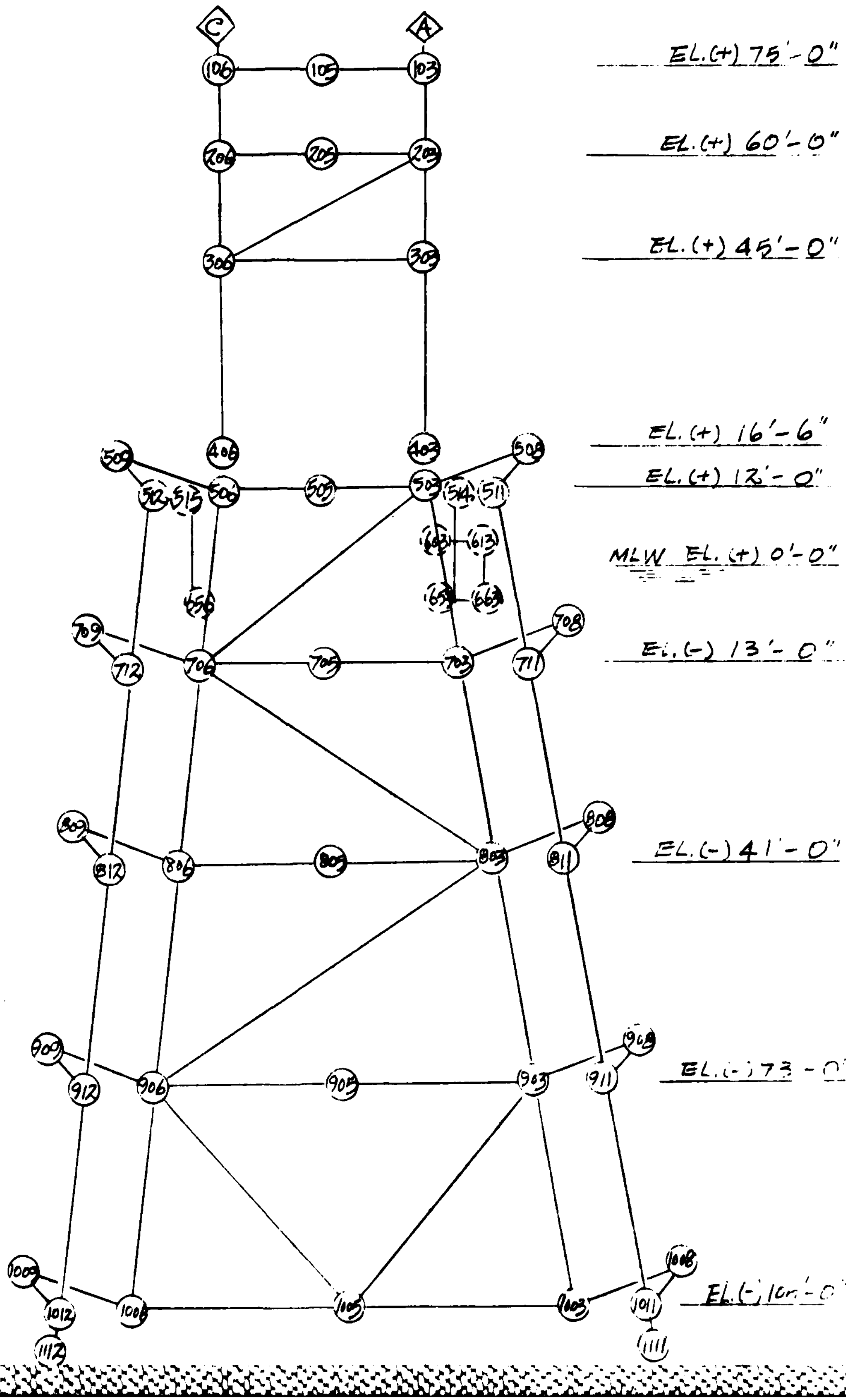

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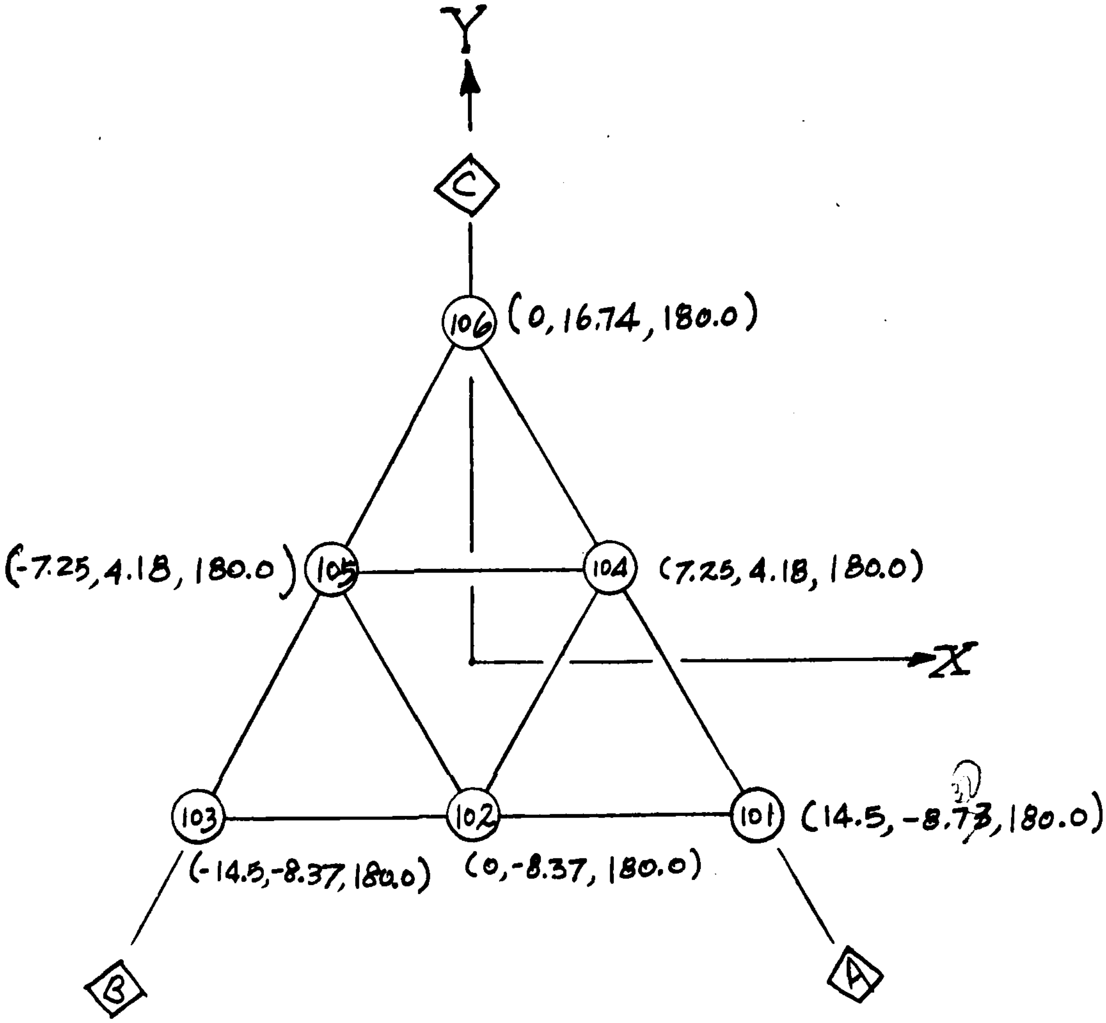

PLAN @ EL. (+) 75'-0"

Upper Deck

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Sheet 20Z of 16

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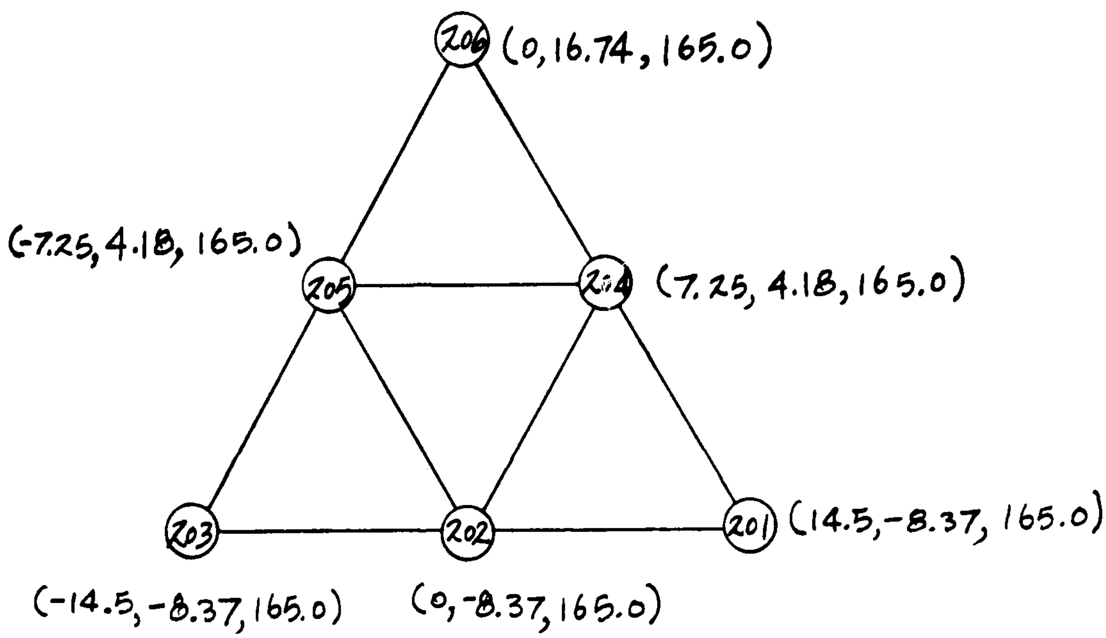
Date 8-5-76 Job No. 27-771-100 Calculation Elevations & Plans



PLAN @ EL. (+) 60'-0"

Equipment Deck

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
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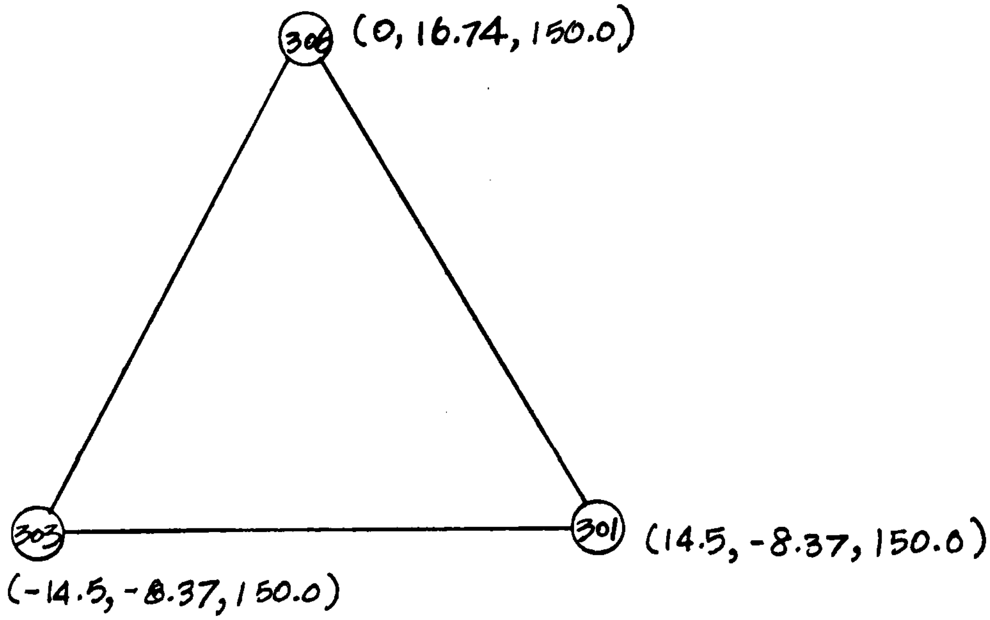
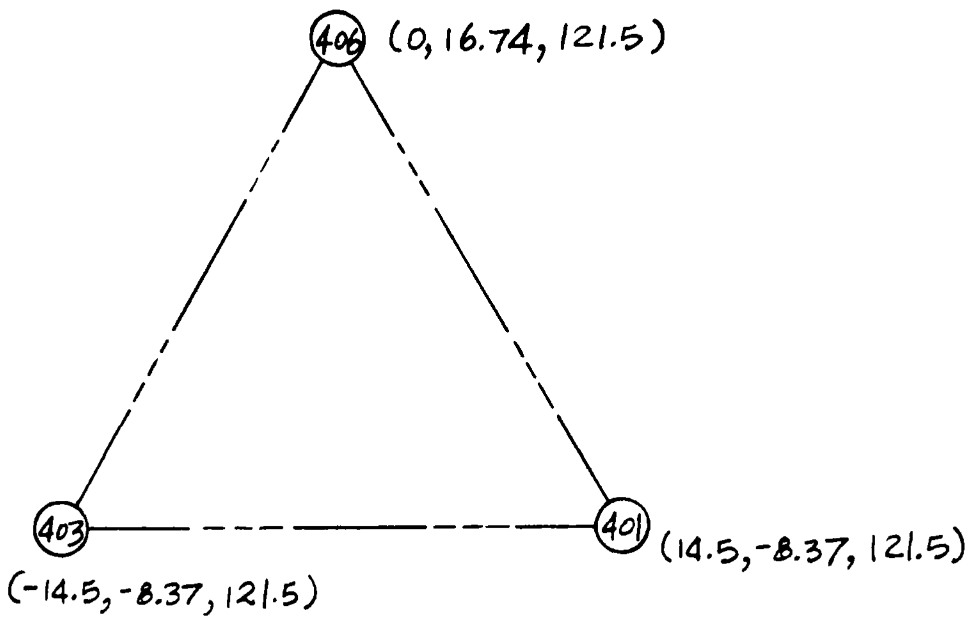
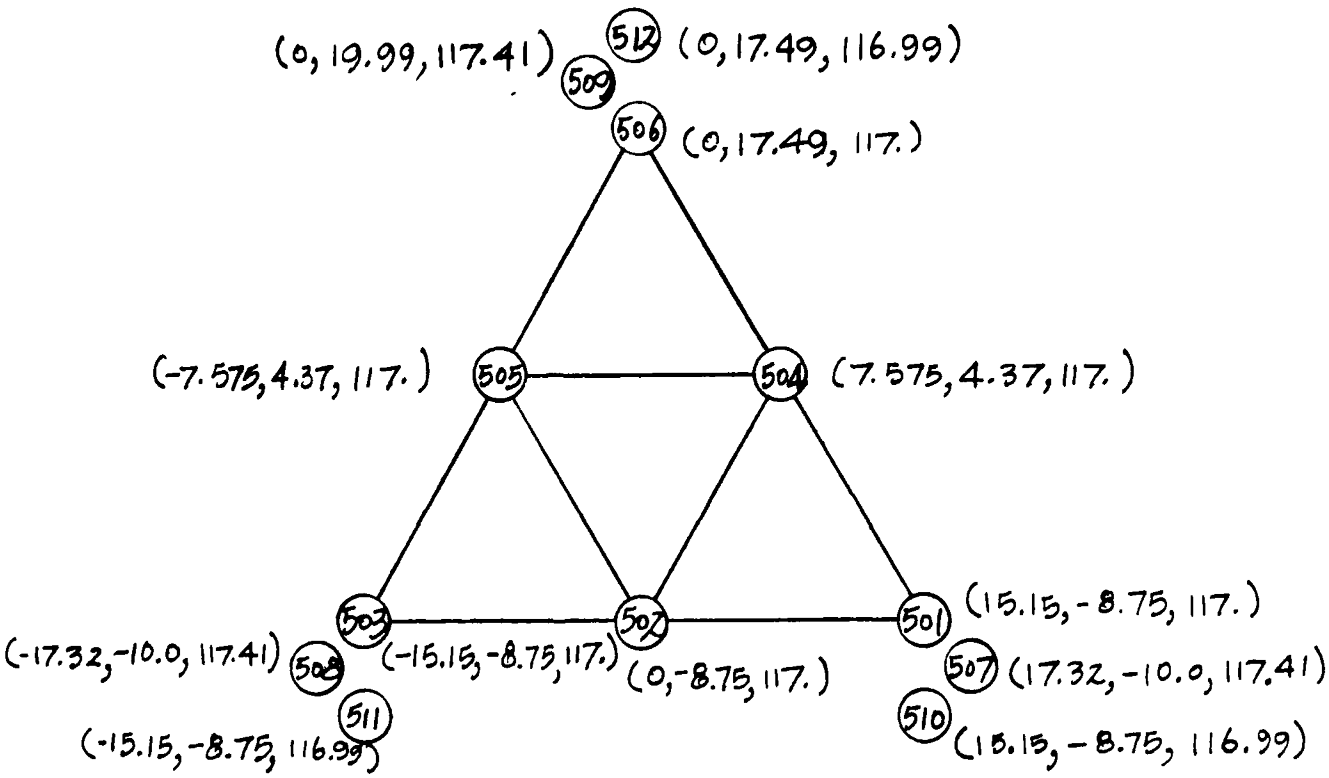


PLAN @ EL. (+) 45'-0"

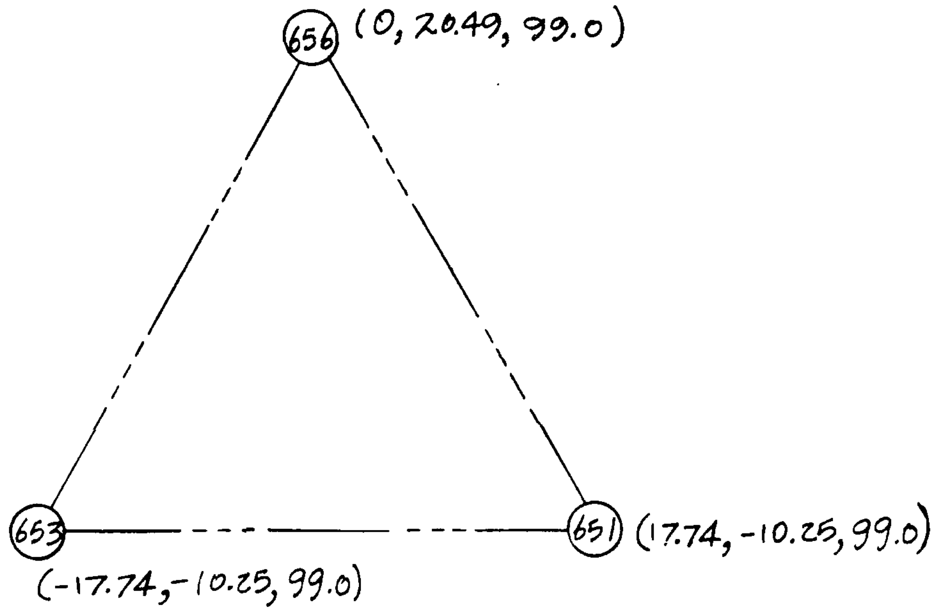


PLAN @ EL. (+) 16'-6"

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-5-76 Job No. 27-771-100 Calculation Elevations & Plans



PLAN @ EL. (+) 12'-0"



PLAN @ EL. (-) 6'-0"

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Sheet 2.12 of 16

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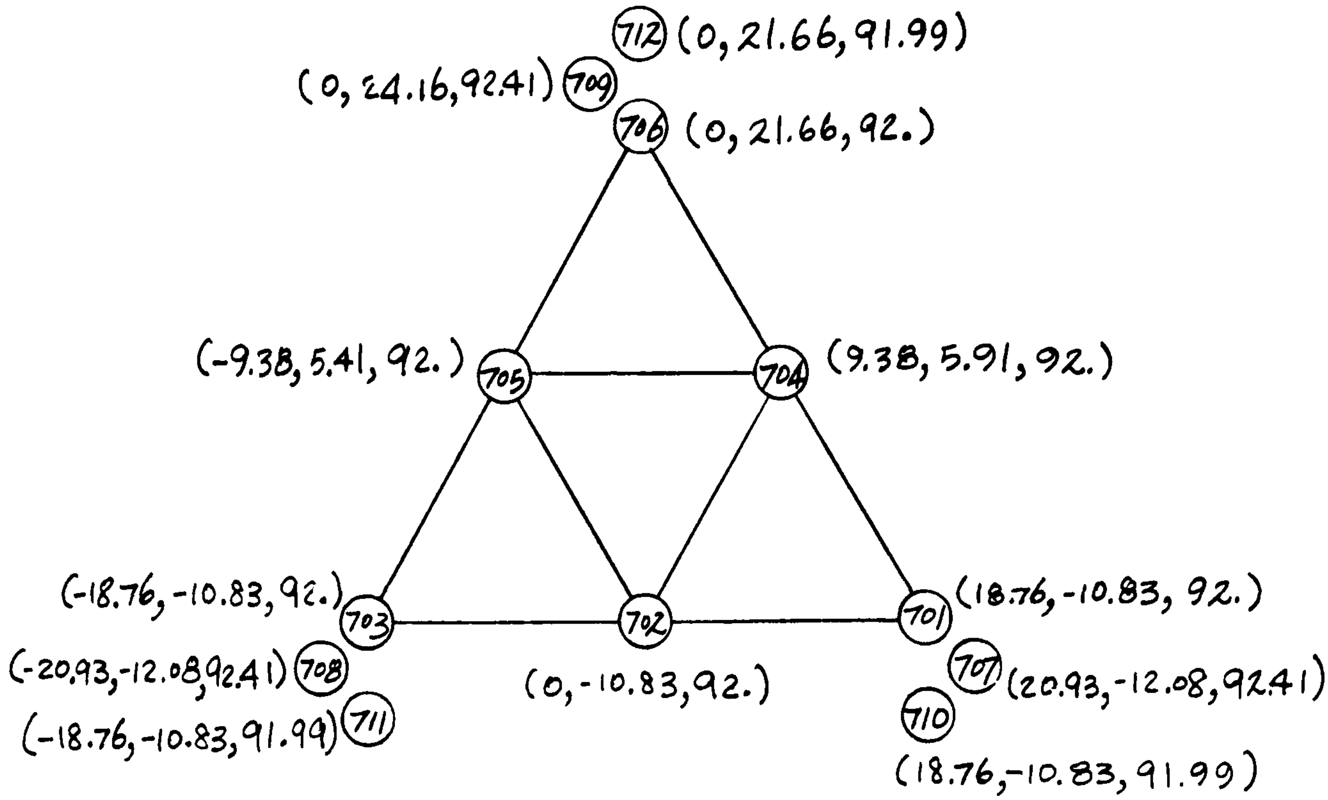

PLAN @ EL. (-) 13'-0"

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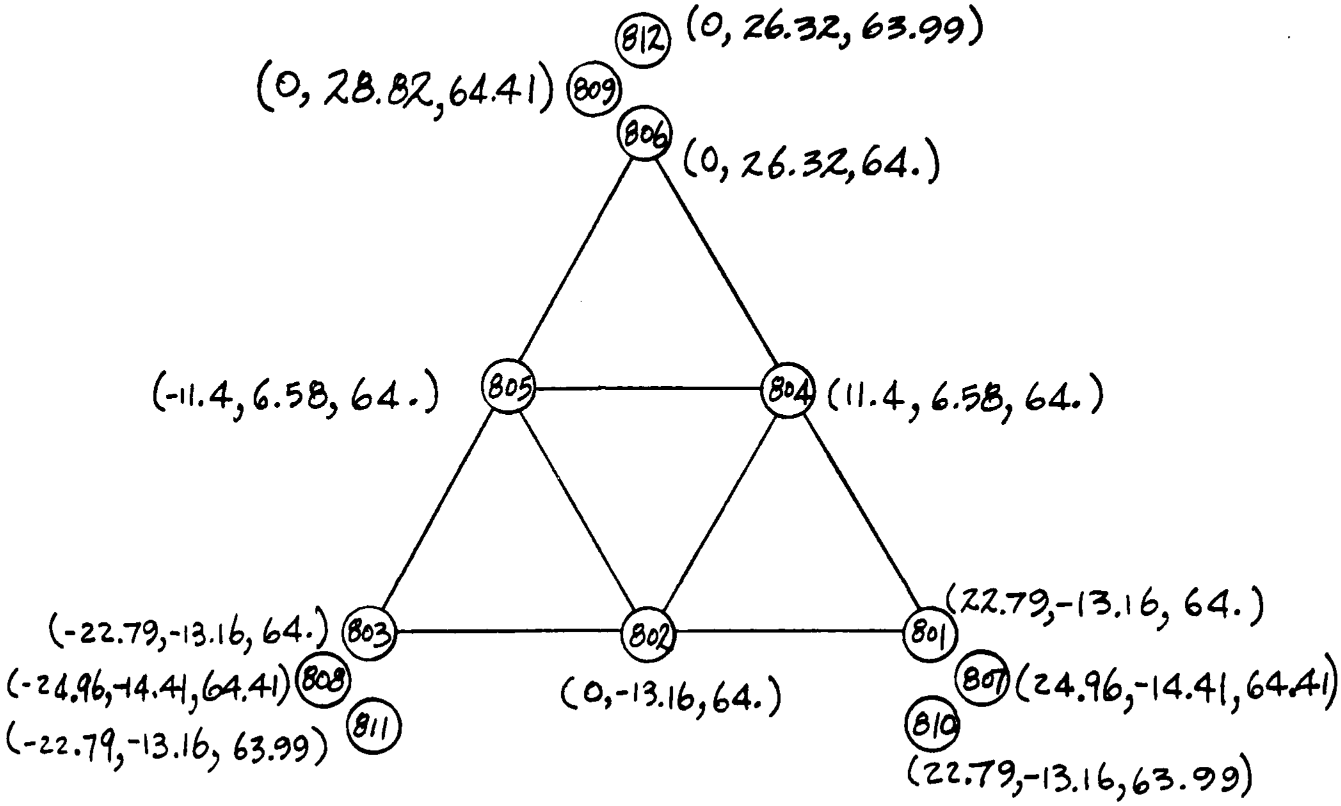
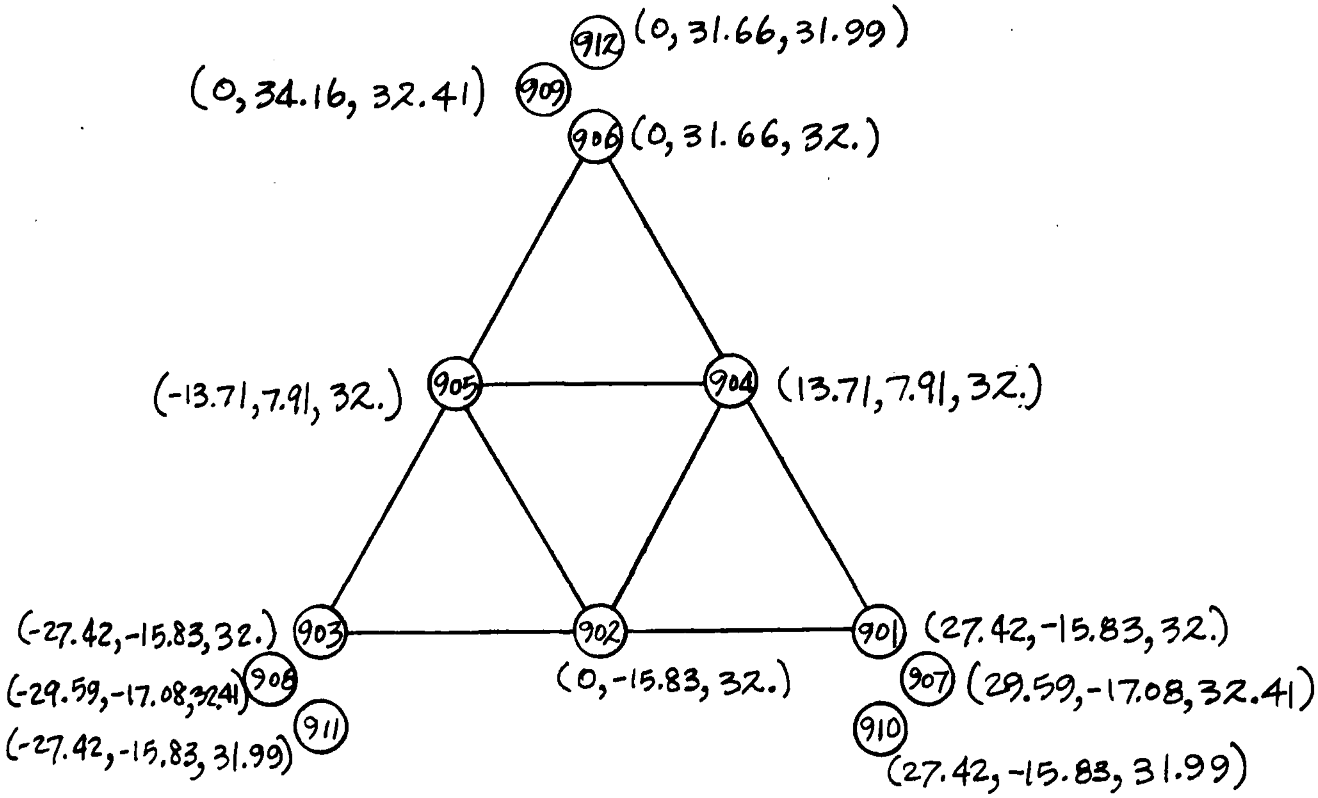


PLAN @ EL. (-) 41'-0"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(0, 34.16, 32.41)
909
906
(0, 31.66, 32.)
(-13.71, 7.91, 32.)
905
904
(13.71, 7.91, 32.)
(-27.42, -15.83, 32.)
903
902
901
(27.42, -15.83, 32.)
(-29.59, -17.08, 32.41)
908
(0, -15.83, 32.)
907
(29.59, -17.08, 32.41)
911
(-27.42, -15.83, 31.99)
910
(27.42, -15.83, 31.99)

PLAN @ EL. (-) 73'-0"

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By C. Chern Client U.S. NAVY Subject Fatigue Analysis
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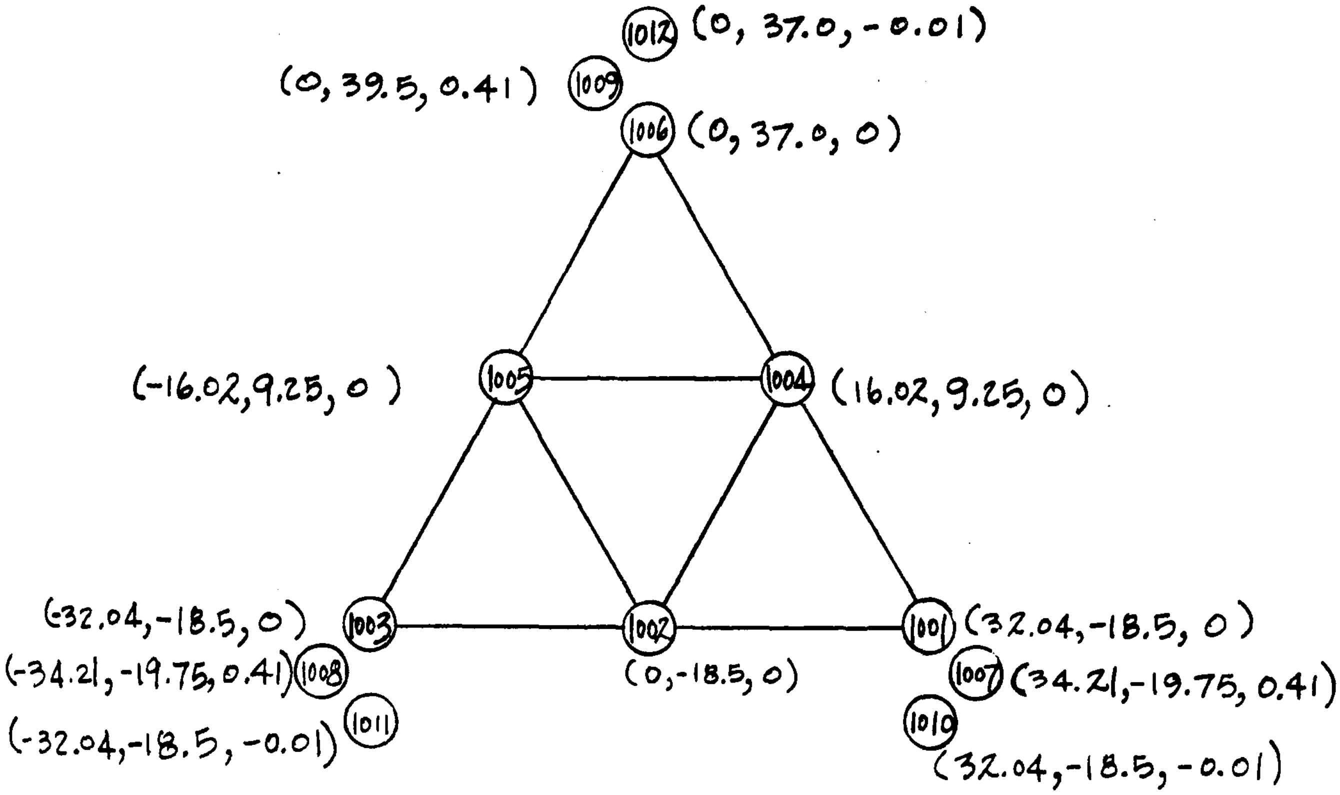
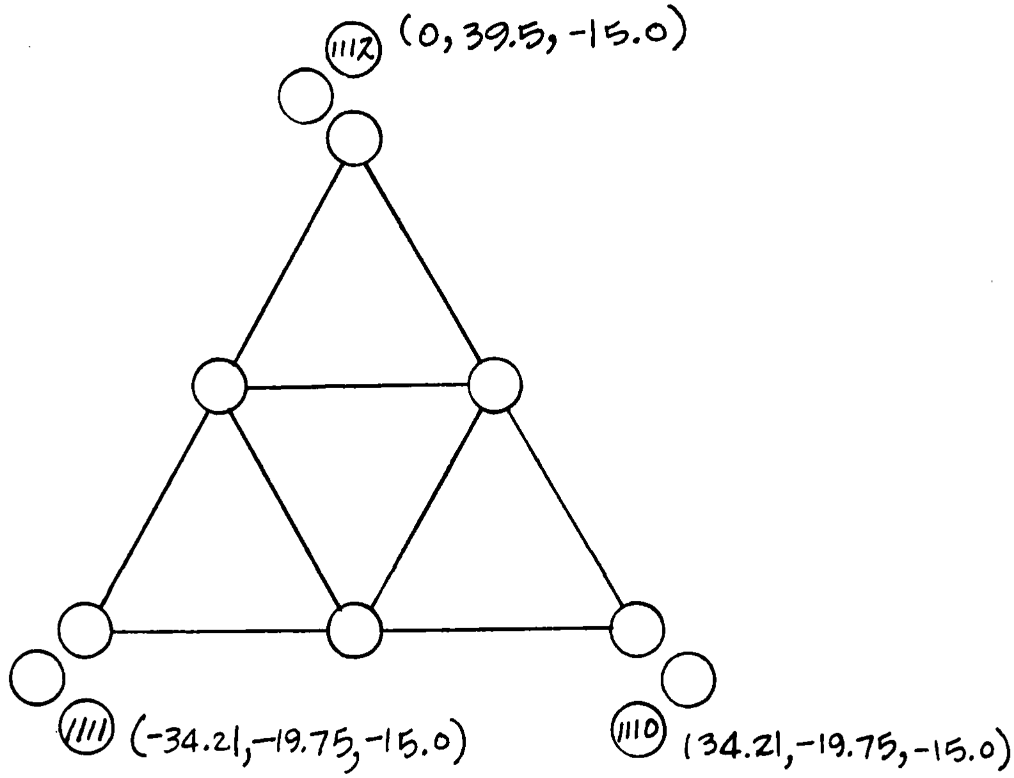


PLAN @ EL.(-) 105'-0"



PLAN @ EL. (-) 120'-0"

SECTION 3

WAVE FORCES ON STRUCTURE

3.1 INTRODUCTION

Base shears on the platform structure attributable to waves and ocean currents are presented hereinafter. Stoke's Fifth Order Gravity Wave Theory* was employed to perform the calculation of wave forces on the structure. In the computations, it was assumed that the approaching wave direction was at 60 degrees with respect to the X-axis (See Page 2.06).

A transfer function relating the base shear and wave height relationship was obtained by means of the least squares approximation.

Computer printout of the wave force is compiled in APPENDIX C.

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* A computer program on Stoke's Theory is available through Synercom Technology, Inc., Houston, Texas

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By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 6-30-76 Job No. 27-771-100 Calculation Wave Forces on Structure

3.2 PERCENTAGE DISTRIBUTION OF WAVE HEIGHT OCCURRENCE

REF: Table 39, Glenn's Report

WAVE HEIGHT CATEGORY (FEET)	NUMBER OF WAVES	PERCENTAGE OF OCCURRENCE
0 - 4 (2)	76,040,000	76.932
5 - 9 (7)	18,380,000	18.596
10 - 14 (12)	3,563,000	3.605
15 - 19 (17)	689,000	0.697
20 - 24 (22)	135,400	0.137
25 - 29 (27)	26,250	0.027
30 - 34 (32)	5,100	0.005
35 - 39 (37)	999	0.001
40 - 44 (42)	200	0.000
45 - 49 (47)	41	0.000
50 - 54 (52)	8	0.000
55 - 59 (57)	2	0.000
SUMMATION	98,840,000	100.000

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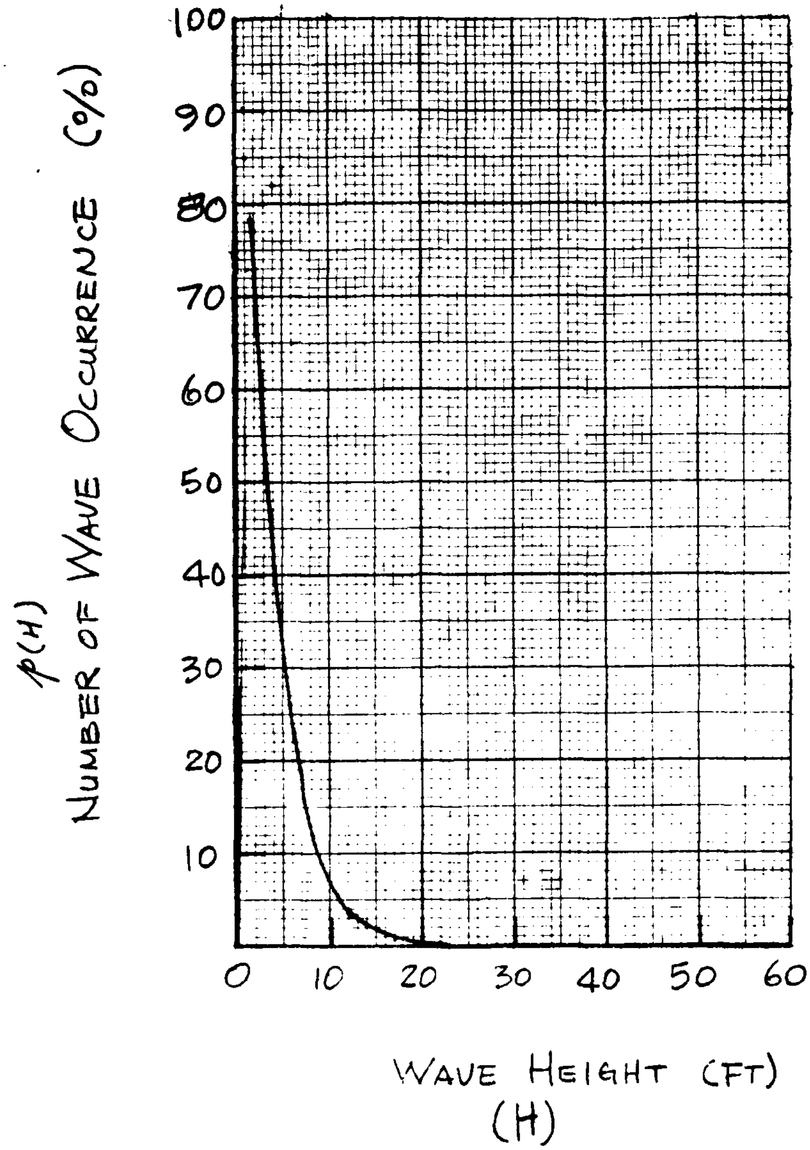
Date 6-30-76 Job No. 27-771-100 Calculation Wave Forces on Structure



Probability Density Function $p(H)$

3.3 DRAG AND INERTIA COEFFICIENTS

The following values are used in the computer program to produce wave forces on the structure:

Drag Coefficient:

$C_D = 0.74$ for members above MLW

$= 1.02$ for members below MLW

Inertia Coefficient:

$C_M = 1.34$ for all members

Marine Fouling

Addition of 2-inch on effective diameter for members below MLW.

3.4 CURRENT VELOCITY DISTRIBUTION PROFILES

Ref.: A.H. Glenn & Associates Report.

Wave Height = 2 FT Period = 5.9 Sec.

Total Tide = 1.7 FT

Still Water Level = 105 + 1.7 = 106.7 FT

Surface Current = 1.3 ft/sec. = 0.8 Knot

ELEVATION ABOVE MUDLINE (FT)	PERCENTAGE OF DEPTH	PERCENTAGE OF SURFACE CURRENT	CURRENT VELOCITY (FT/SEC) Knot
106.7	0	100	1.3 (0.8)
96.0	10	93	1.2 (0.7)
85.4	20	84	1.1 (0.7)
74.7	30	77	1.0 (0.6)
64.0	40	70	0.9 (0.5)
53.4	50	64	0.8 (0.5)
42.7	60	55	0.7 (0.4)
32.0	70	48	0.6 (0.4)
21.3	80	41	0.5 (0.3)
10.7	90	32	0.4 (0.2)
0	100	14	0.2 (0.1)

Wave Height = 7 FT Period = 7.6 Sec.

Total Tide = 1.9 FT

Still Water Level = 105 + 1.9 = 106.9 FT

Surface Current = 1.3 ft/sec = 0.8 knot

ELEVATION ABOVE MUDLINE (FT)	PERCENTAGE OF DEPTH	PERCENTAGE OF SURFACE CURRENT	CURRENT VELOCITY (FT/SEC) (Knot)
106.9	0	100	1.3 (0.8)
96.2	10	93	1.2 (0.7)
85.5	20	84	1.1 (0.7)
74.8	30	77	1.0 (0.6)
64.1	40	70	0.9 (0.5)
53.4	50	64	0.8 (0.5)
42.7	60	55	0.7 (0.4)
32.0	70	48	0.6 (0.4)
21.3	80	41	0.5 (0.3)
10.7	90	32	0.4 (0.2)
0	100	14	0.2 (0.1)

Wave Height = 12 FT Period = 8.3 Sec.

Total Tide = 2.2 FT

Still Water Level = 105 + 2.2 = 107.2 FT

Surface Current = 1.4 ft/sec = 0.8 knot

ELEVATION ABOVE MUDLINE (FT)	PERCENTAGE OF DEPTH	PERCENTAGE OF SURFACE CURRENT	CURRENT VELOCITY (FT/SEC)
107.2	0	100	1.4 knot (0.8)
96.5	10	93	1.3 (0.8)
85.8	20	84	1.2 (0.7)
75.0	30	77	1.1 (0.7)
64.3	40	70	1.0 (0.6)
53.6	50	64	0.9 (0.5)
42.9	60	55	0.8 (0.5)
32.2	70	48	0.7 (0.4)
21.4	80	41	0.6 (0.4)
10.7	90	32	0.4 (0.2)
0	100	14	0.2 (0.1)

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Date 7-1-76 Job No. 27-771-100 Calculation Wave Forces on Structure

Wave Height = 17 FT Period = 8.8 Sec.

Total Tide = 2.7 FT

Still Water Level = 105 + 2.7 = 107.7 FT

Surface Current = 1.5 ft/sec = 0.9 knot

ELEVATION ABOVE MUDLINE (FT)	PERCENTAGE OF DEPTH	PERCENTAGE OF SURFACE CURRENT	CURRENT VELOCITY (FT/SEC) knot
107.7	0	100	1.5 (0.9)
96.9	10	93	1.4 (0.8)
86.2	20	84	1.3 (0.8)
75.4	30	77	1.2 (0.7)
64.6	40	70	1.1 (0.7)
53.9	50	64	1.0 (0.6)
43.1	60	55	0.8 (0.5)
32.3	70	48	0.7 (0.4)
21.5	80	41	0.6 (0.4)
10.8	90	32	0.5 (0.3)
0	100	14	0.2 (0.1)

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Wave Height = 22 FT Period = 9.4 Sec.

Total Tide = 3.2 FT

Still Water Level = 105 + 3.2 = 108.2 FT

Surface Current = 1.7 ft/sec. = 1.0 knot

ELEVATION ABOVE MUDLINE (FT)	PERCENTAGE OF DEPTH	PERCENTAGE OF SURFACE CURRENT	CURRENT VELOCITY (FT/SEC) knot
108.2	0	100	1.7 (1.0)
97.4	10	93	1.6 (0.9)
86.6	20	84	1.4 (0.8)
75.7	30	77	1.3 (0.8)
64.9	40	70	1.2 (0.7)
54.1	50	64	1.1 (0.6)
43.3	60	55	0.9 (0.5)
32.5	70	48	0.8 (0.5)
21.6	80	41	0.7 (0.4)
10.8	90	32	0.5 (0.3)
0	100	14	0.2 (0.1)

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Wave Height = 27 FT   Period = 9.8 Sec.

Total Tide = 3.7 FT

Still Water Level = 105 + 3.7 = 108.7 FT

Surface Current = 2.0 ft/sec. = 1.2 knot

ELEVATION ABOVE MUDLINE (FT)	PERCENTAGE OF DEPTH	PERCENTAGE OF SURFACE CURRENT	CURRENT VELOCITY (FT/SEC)
108.7	0	100	2.0 knot (1.2)
97.8	10	93	1.9 (1.1)
87.0	20	84	1.7 (1.0)
76.1	30	77	1.5 (0.9)
65.2	40	70	1.4 (0.8)
54.4	50	64	1.3 (0.8)
43.5	60	55	1.1 (0.7)
32.6	70	48	1.0 (0.6)
21.7	80	41	0.8 (0.5)
10.9	90	32	0.6 (0.4)
0	100	14	0.3 (0.2)

Wave Height = 32 FT Period = 10.4 Sec.

Total Tide = 4.3 FT

Still Water Level = 105 + 4.3 = 109.3 FT

Surface Current = 2.3 ft/sec = 1.4 knot

ELEVATION ABOVE MUDLINE (FT)	PERCENTAGE OF DEPTH	PERCENTAGE OF SURFACE CURRENT	CURRENT VELOCITY (FT/SEC) knot
109.3	0	100	2.3 (1.4)
98.4	10	93	2.1 (1.2)
87.4	20	84	1.9 (1.1)
76.5	30	77	1.8 (1.0)
65.6	40	70	1.6 (0.9)
54.7	50	64	1.5 (0.9)
43.7	60	55	1.3 (0.8)
32.8	70	48	1.1 (0.7)
21.9	80	41	0.9 (0.5)
10.9	90	32	0.7 (0.4)
0	100	14	0.3 (0.2)

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By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 7-1-76 Job No. 27-771-100 Calculation Wave Forces on Structure

Wave Height = 37 FT Period = 10.9 Sec.

Total Tide = 4.9 FT

Still Water Level = 105 + 4.9 = 109.9 FT

Surface Current = 2.7 ft/sec = 1.6 knot

ELEVATION ABOVE MUDLINE (FT)	PERCENTAGE OF DEPTH	PERCENTAGE OF SURFACE CURRENT	CURRENT VELOCITY (FT/SEC)
109.9	0	100	2.7 knot (1.6)
98.9	10	93	2.5 (1.5)
87.9	20	84	2.3 (1.4)
76.9	30	77	2.1 (1.2)
65.9	40	70	1.9 (1.1)
54.9	50	64	1.7 (1.0)
44.0	60	55	1.5 (0.9)
33.0	70	48	1.3 (0.8)
22.0	80	41	1.1 (0.7)
11.0	90	32	0.9 (0.5)
0	100	14	0.4 (0.2)

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Date 7-1-76 Job No. 22-771-100 Calculation Wave Forces on Structure

Wave Height = 42 FT Period = 11.4 Sec.

Total Tide = 5.4 FT

Still Water Level = 105 + 5.4 = 110.4 FT

Surface Current = 3.1 ft/sec. = 1.8 knot

ELEVATION ABOVE MUDLINE (FT)	PERCENTAGE OF DEPTH	PERCENTAGE OF SURFACE CURRENT	CURRENT VELOCITY (FT/SEC) (knot)
110.4	0	100	3.1 (1.8)
99.4	10	93	2.9 (1.7)
88.3	20	84	2.6 (1.5)
77.3	30	77	2.4 (1.4)
66.2	40	70	2.2 (1.3)
55.2	50	64	2.0 (1.2)
44.2	60	55	1.7 (1.0)
33.1	70	48	1.5 (0.9)
22.1	80	41	1.3 (0.8)
11.0	90	32	1.0 (0.6)
0	100	14	0.4 (0.2)

Wave Height = 47 FT Period = 12.0 Sec.

Total Tide = 6.0 FT

Still Water Level = 105 + 6 = 111.0 FT

Surface Current = 3.5 ft/sec. = 2.1 knot

ELEVATION ABOVE MUDLINE (FT)	PERCENTAGE OF DEPTH	PERCENTAGE OF SURFACE CURRENT	CURRENT VELOCITY (FT/SEC)	Knot
111.0	0	100	3.5	(2.1)
100.0	10	93	3.3	(2.0)
88.8	20	84	2.9	(1.7)
77.7	30	77	2.7	(1.6)
66.6	40	70	2.5	(1.5)
55.5	50	64	2.2	(1.3)
44.4	60	55	1.9	(1.1)
33.3	70	48	1.7	(1.0)
22.2	80	41	1.4	(0.8)
11.1	90	32	1.1	(0.7)
0	100	14	0.5	(0.3)

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Date 7-1-76 Job No. 27-771-100 Calculation Wave Forces on Structure

Wave Height = 52 FT Period = 12.6 Sec.

Total Tide = 6.6 FT

Still Water Level = 105 + 6.6 = 111.6 FT

Surface Current = 3.9 ft/sec = 2.3 knot

ELEVATION ABOVE MUDLINE (FT)	PERCENTAGE OF DEPTH	PERCENTAGE OF SURFACE CURRENT	CURRENT VELOCITY (FT/SEC) Knot
111.6	0	100	3.9 (2.3)
100.4	10	93	3.6 (2.1)
89.3	20	84	3.3 (2.0)
78.1	30	77	3.0 (1.8)
67.0	40	70	2.7 (1.6)
55.8	50	64	2.5 (1.5)
44.6	60	55	2.1 (1.2)
33.5	70	48	1.9 (1.1)
22.3	80	41	1.6 (0.9)
11.2	90	32	1.2 (0.7)
0	100	14	0.5 (0.3)

Wave Height = 57 FT Period = 13.2 Sec.

Total Tide = 7.2 FT

Still Water Level = 105 + 7.2 = 112.2 FT

Surface Current = 4.3 ft/sec. = 2.5 knot

ELEVATION ABOVE MUDLINE (FT)	PERCENTAGE OF DEPTH	PERCENTAGE OF SURFACE CURRENT	CURRENT VELOCITY (FT/SEC) (Knot)
112.2	0	100	4.3 (2.5)
101.0	10	93	4.0 (2.4)
89.8	20	84	3.6 (2.1)
78.5	30	77	3.3 (2.0)
67.3	40	70	3.0 (1.8)
56.1	50	64	2.8 (1.7)
44.9	60	55	2.4 (1.4)
33.7	70	48	2.1 (1.2)
22.4	80	41	1.8 (1.1)
11.2	90	32	1.4 (0.8)
0	100	14	0.6 (0.4)

3.5 WAVE HEIGHT AND BASE SHEAR RELATIONSHIP

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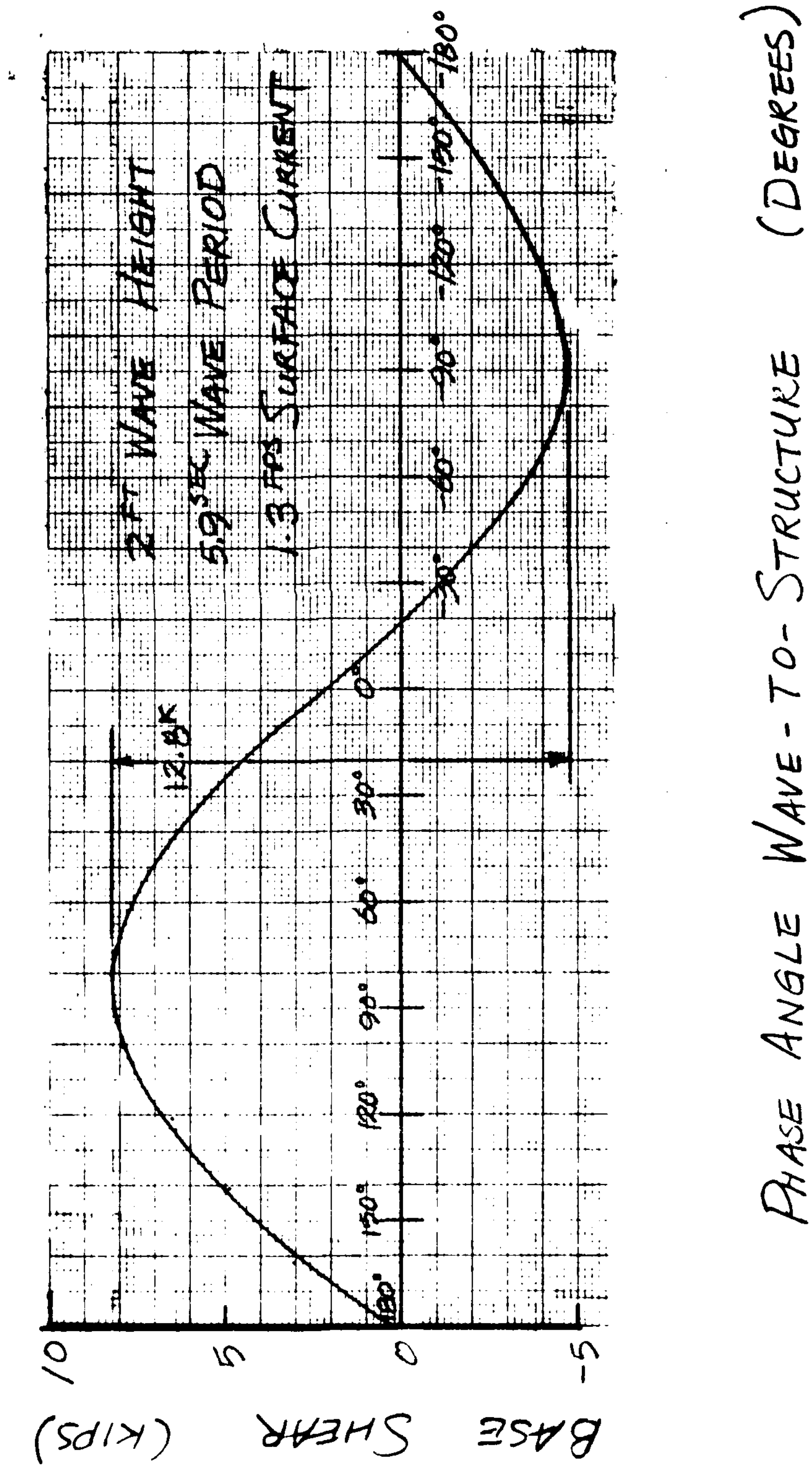
Date 7-20-76 Job No. 27-77L-100 Calculation Wave Forces on Structure



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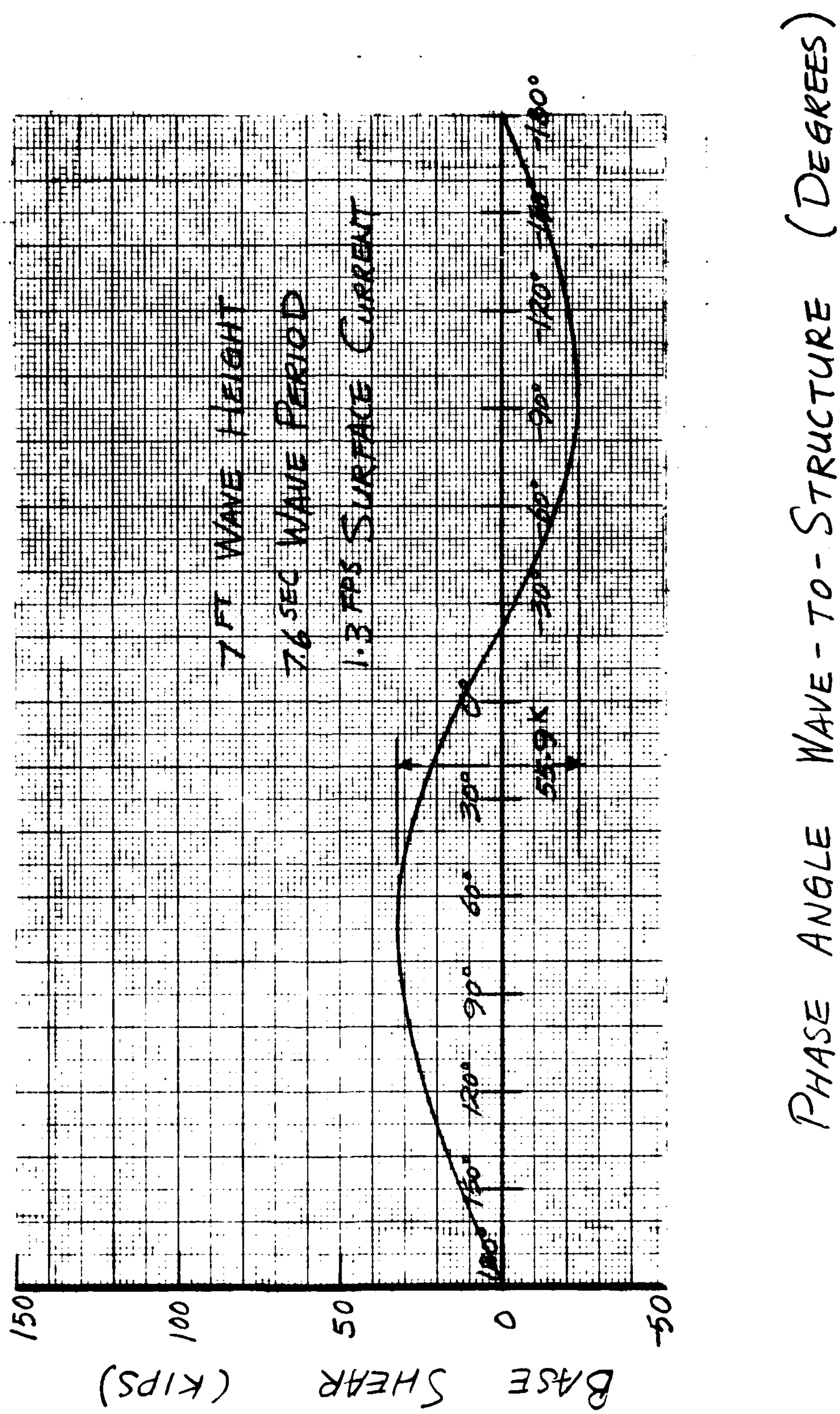
Date 7-20-76 Job No. 27-771-100 Calculation Wave Forces on Structure



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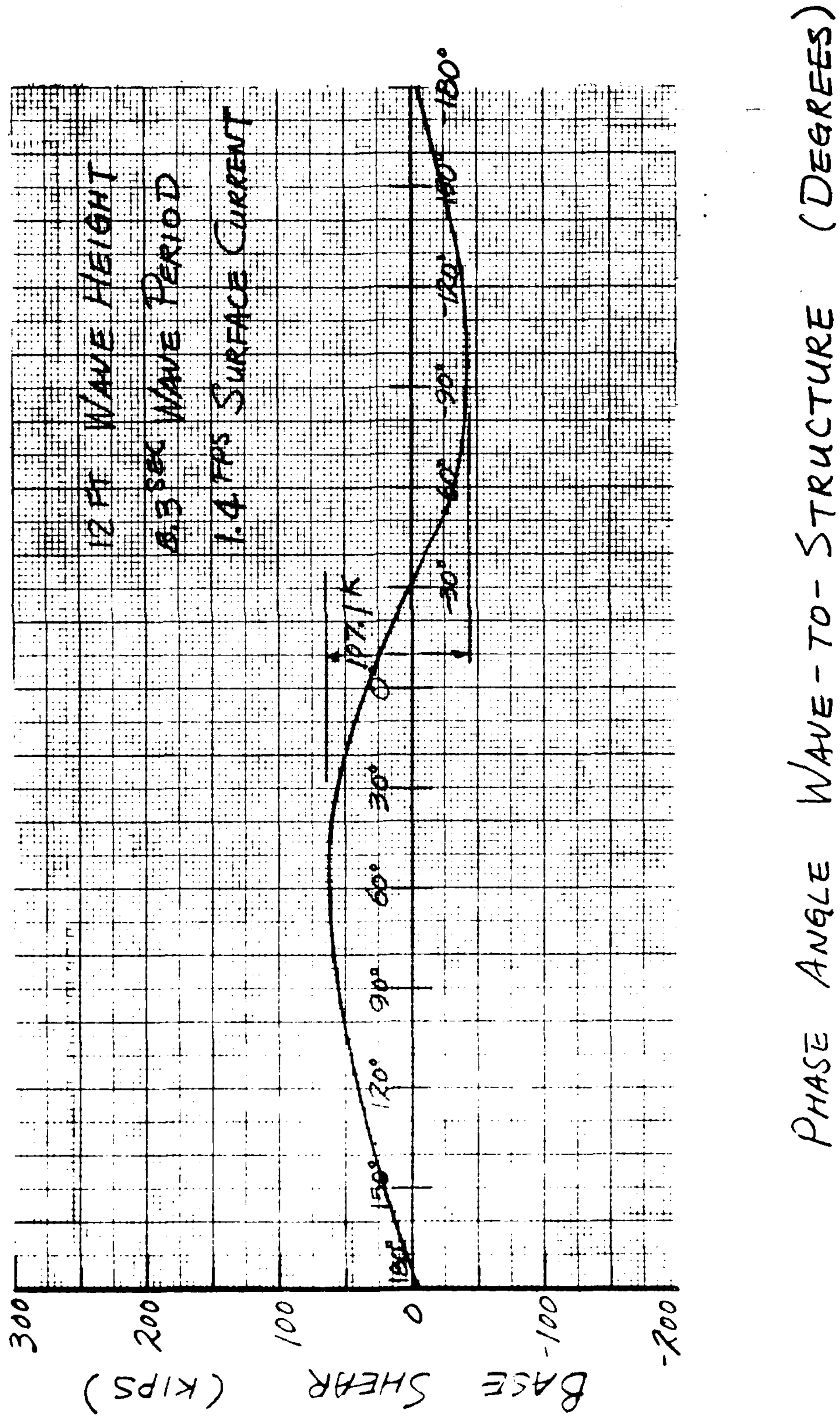
Date 7-20-76 Job No. 27-271-100 Calculation Wave Forces on Structure



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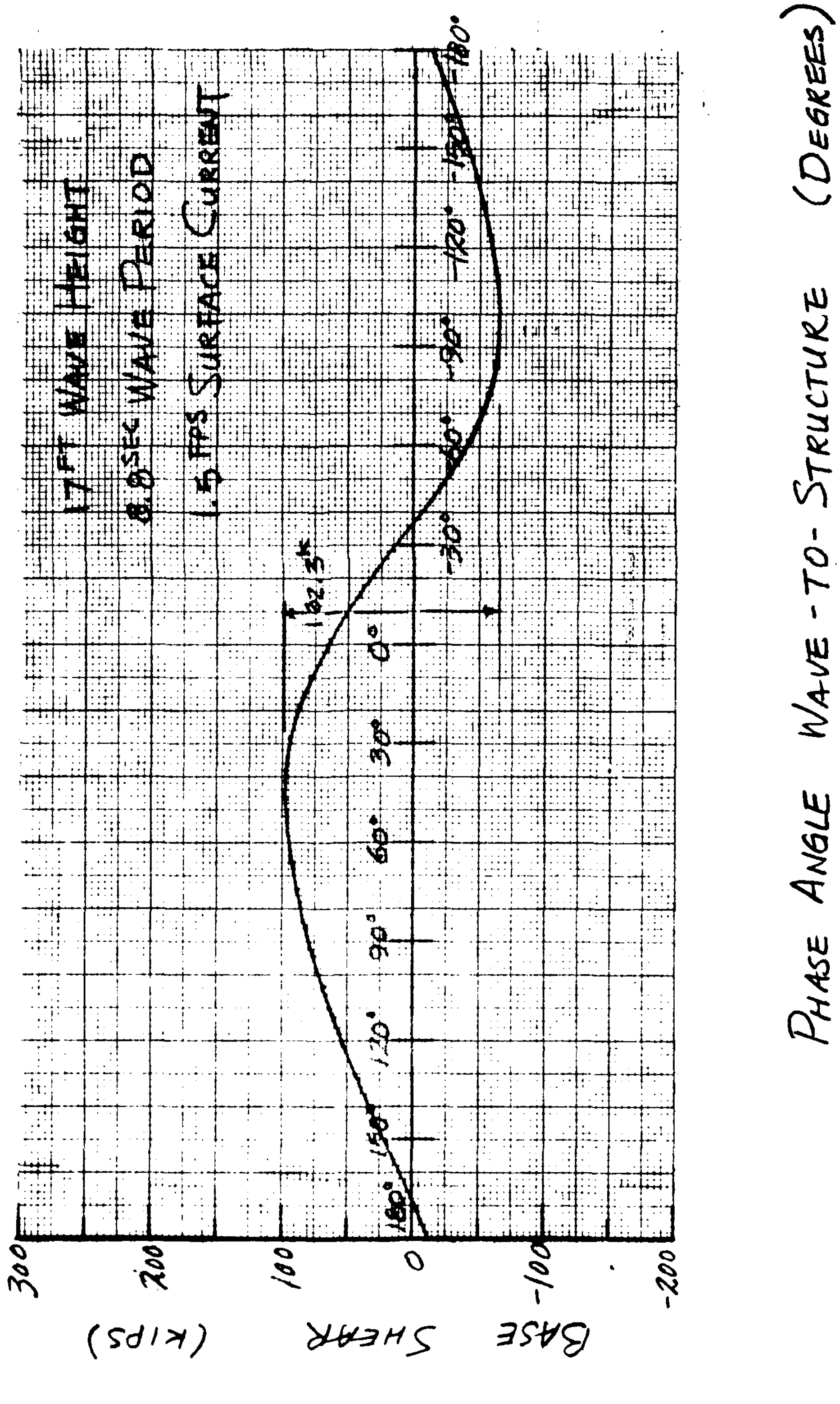
Date 7-20-76 Job No. 27-771-100 Calculation Wave Forces on Structure



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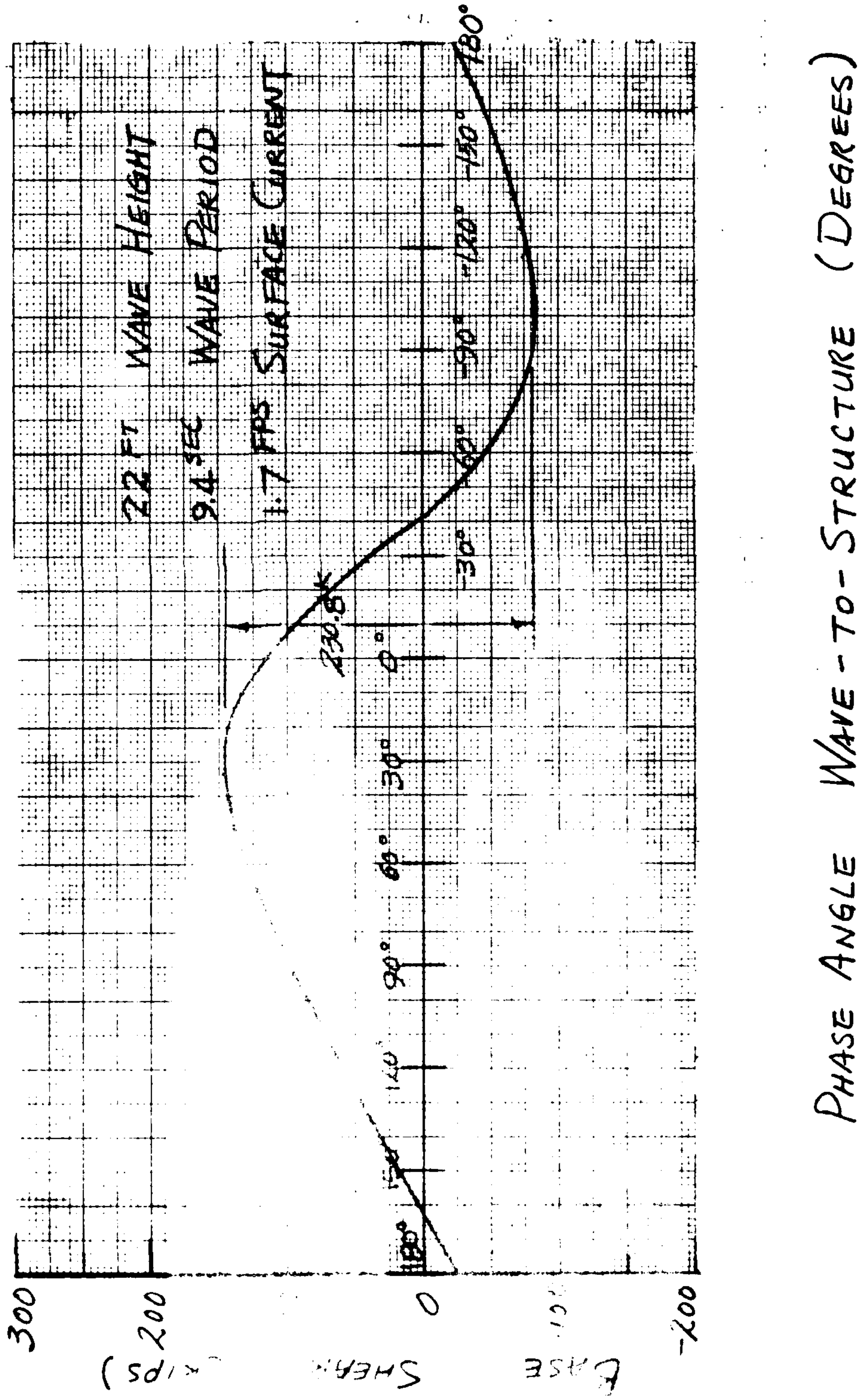
Date 7-20-76 Job No. 27-771-100 Calculation Wave Forces on Structure



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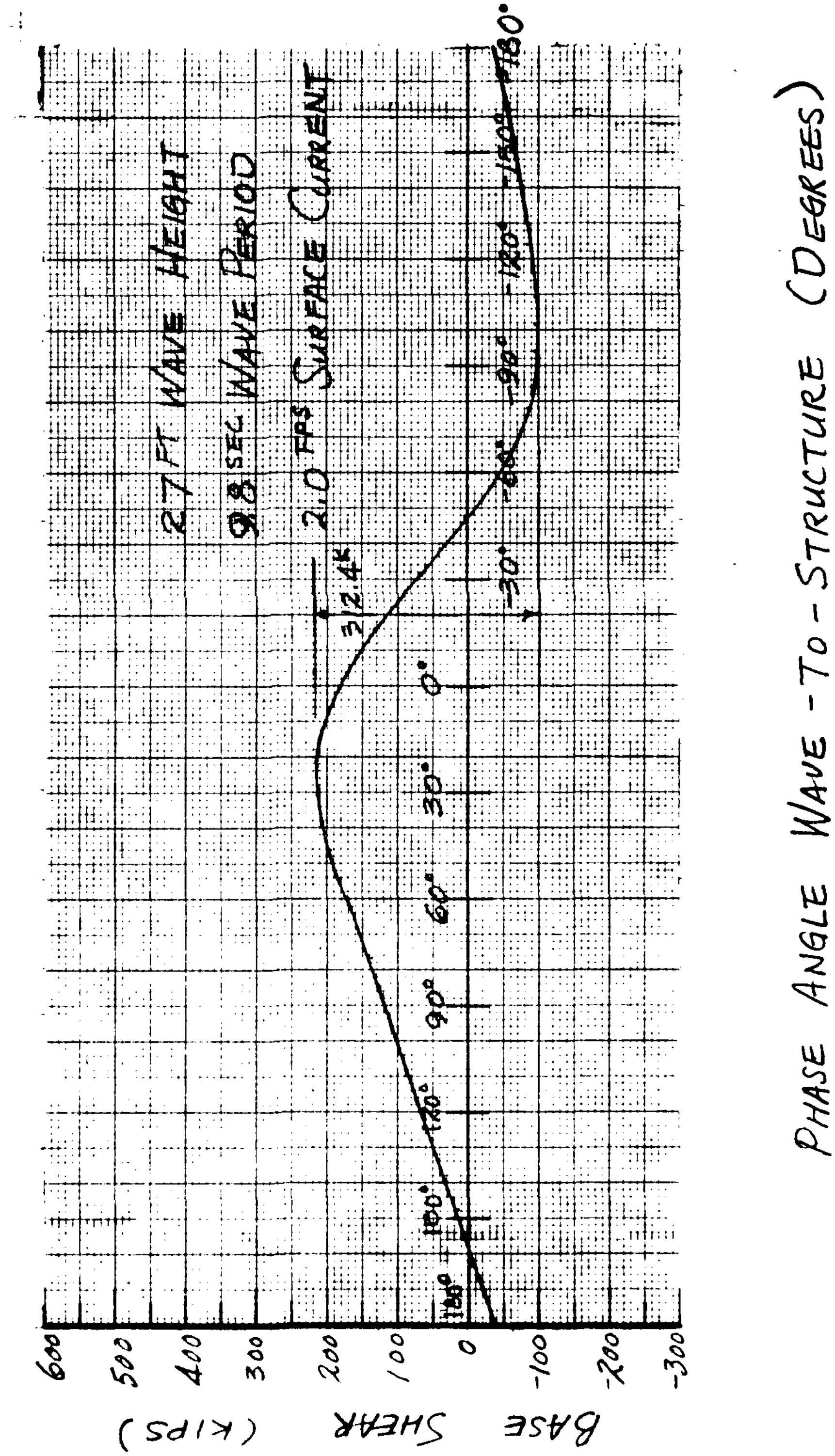
Date 7-20-76 Job No. 27-771-100 Calculation Wave Forces on Structure



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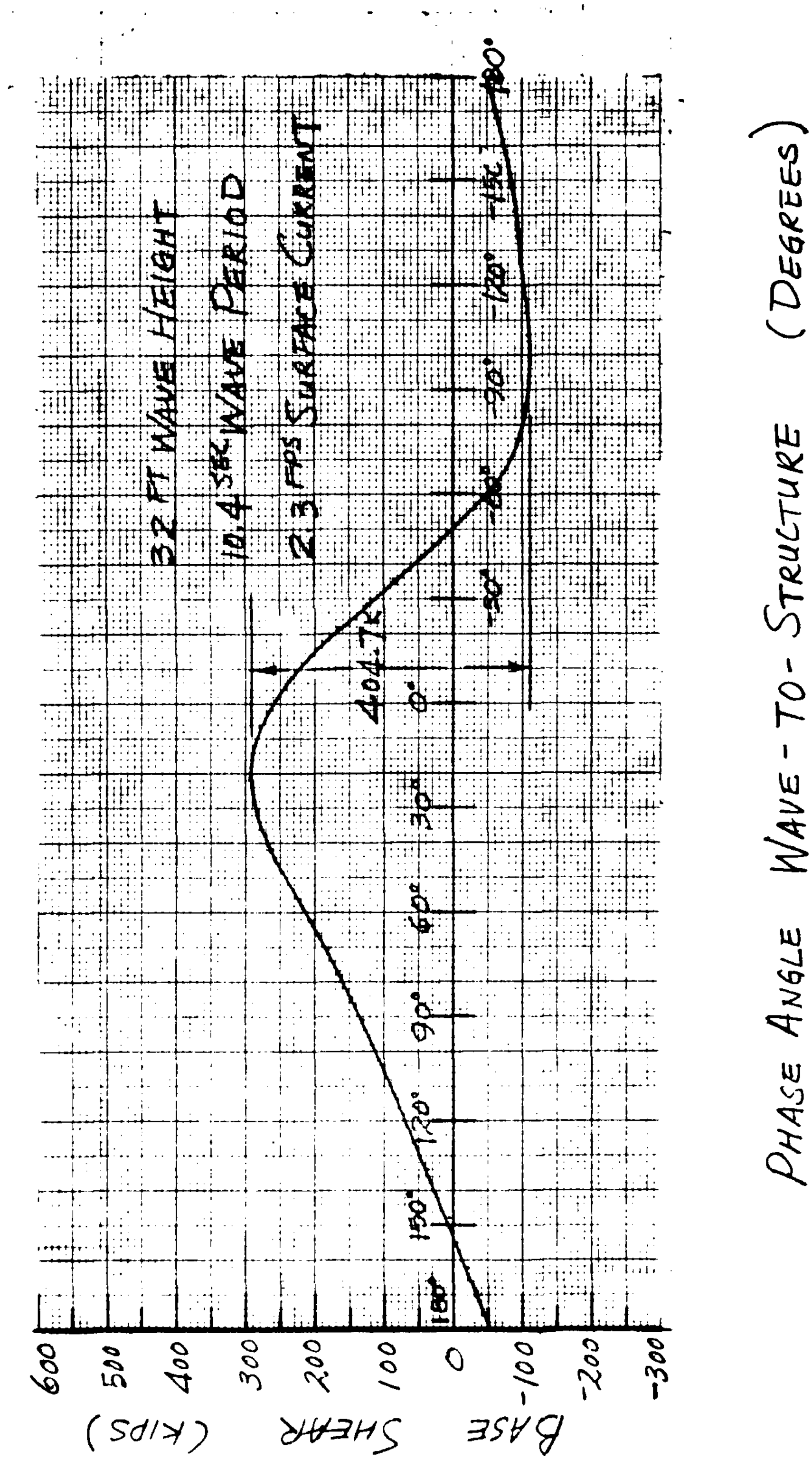
Date 7-20-76 Job No. 27-771-100 Calculation Wave Forces on Structure



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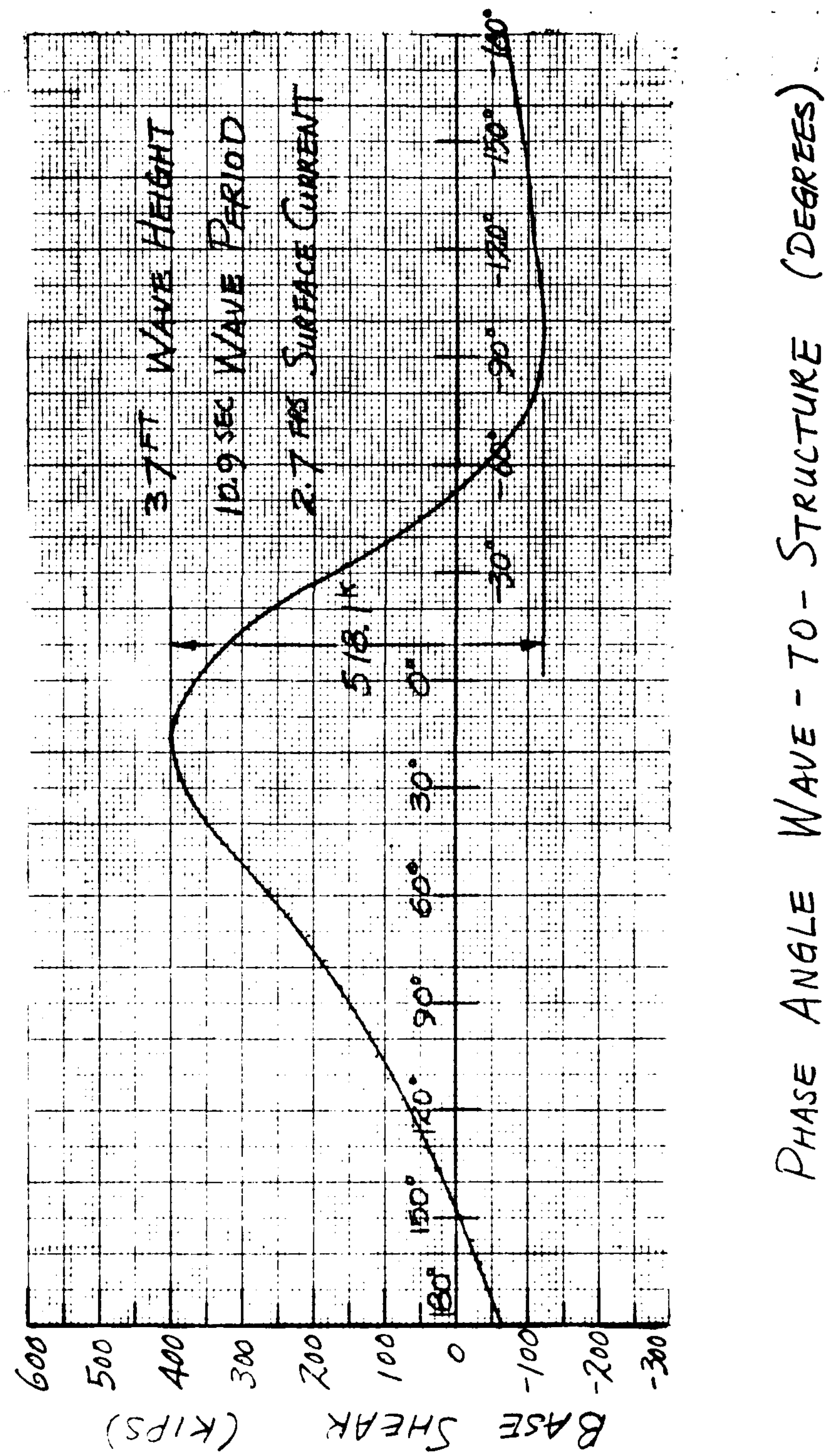
Date 7-20-76 Job No. 27-771-100 Calculation Wave Forces on Structure



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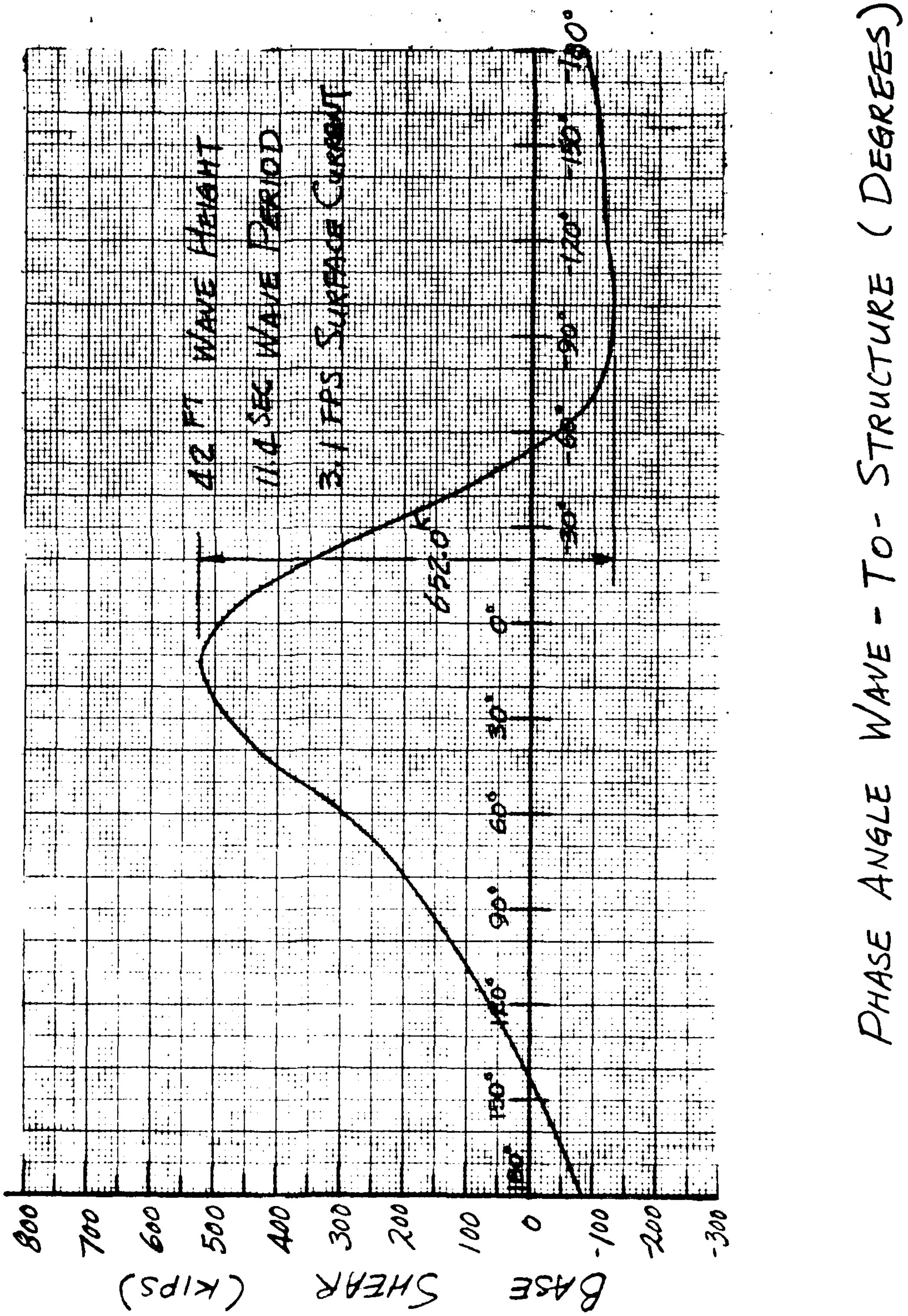
Date 7-20-76 Job No. 27-771-100 Calculation Wave Forces on Structure



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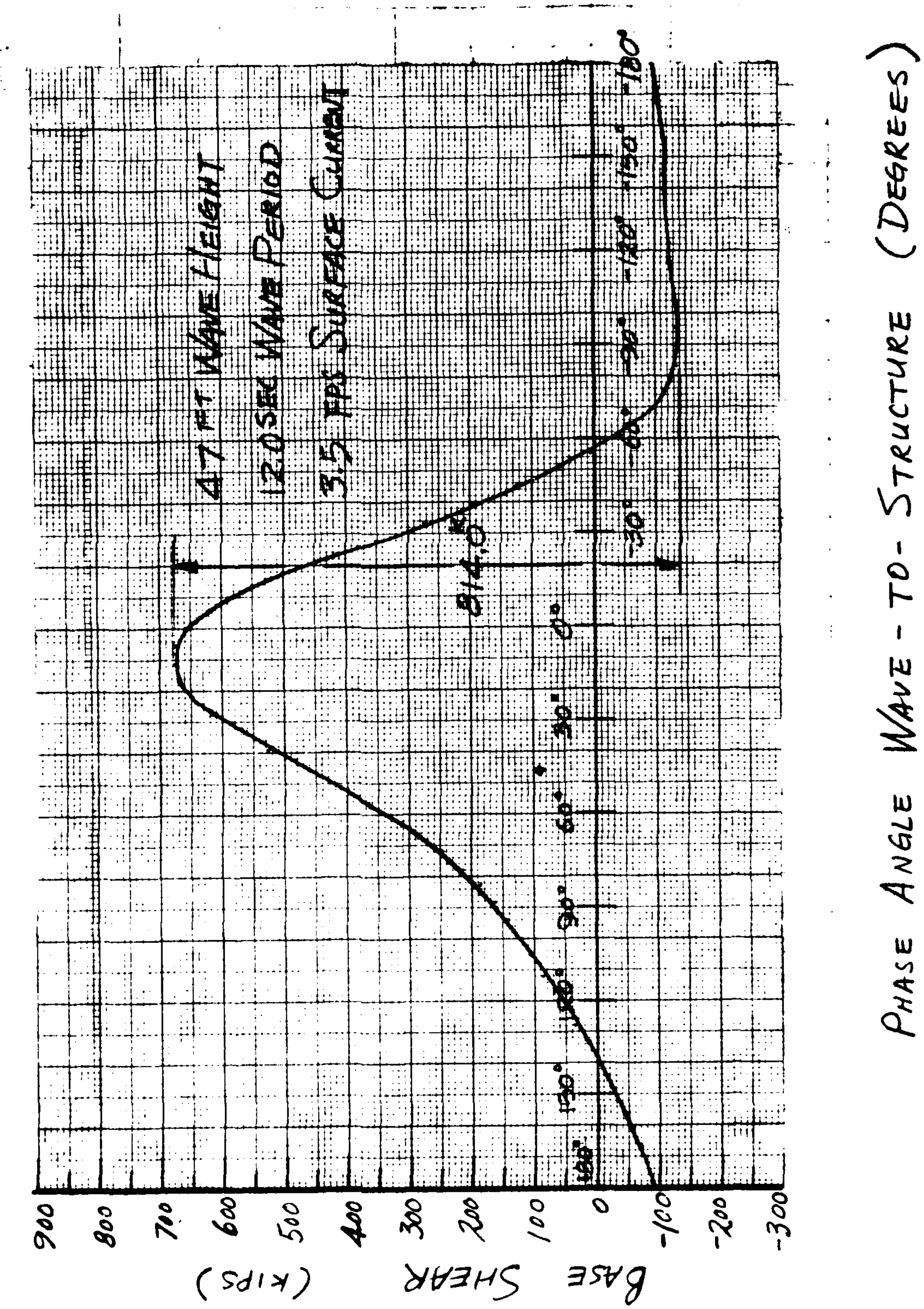
Date 7-20-76 Job No. 27-771-100 Calculation Wave Forces on Structure



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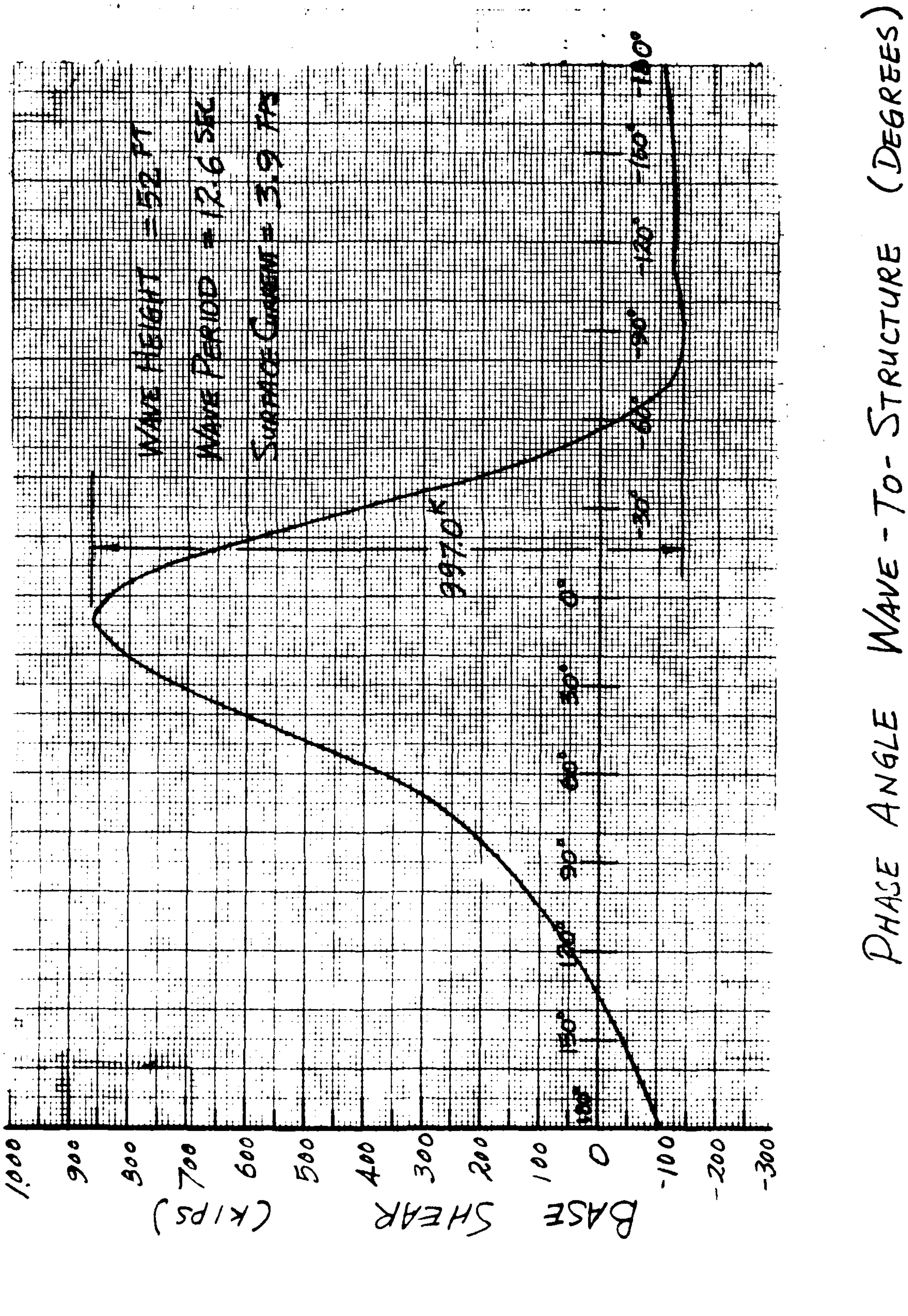
By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 7-20-76 Job No. 27-721-100 Calculation Wave Forces on Structure



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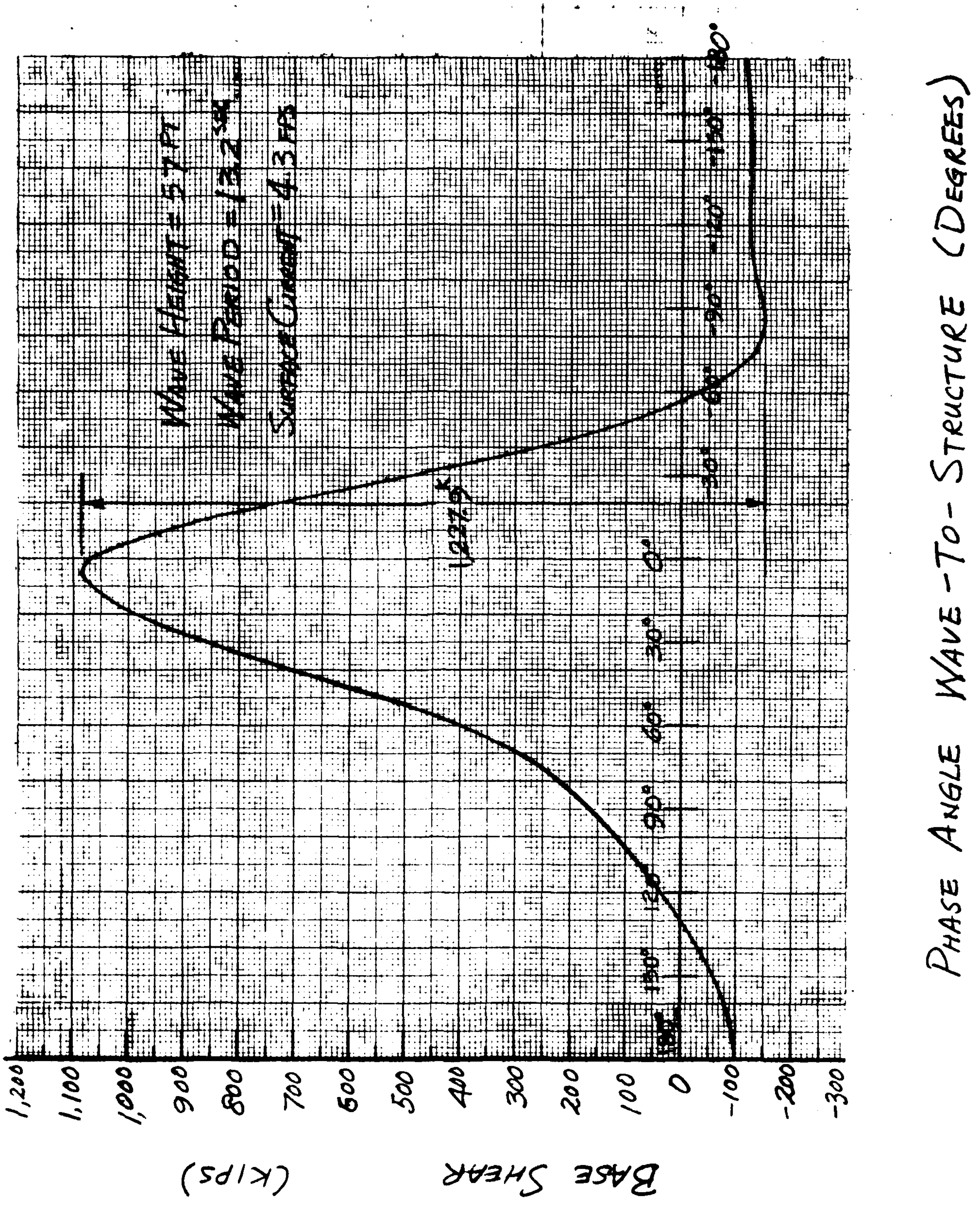
By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 7-19-76 Job No. 27-771-100 Calculation Wave Forces on Structure



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Date 7-20-76 Job No. 27-771-100 Calculation Wave Forces on Structure

BASE SHEAR vs. WAVE HEIGHT

WAVE HEIGHT	BASE SHEAR		
	POSITIVE	NEGATIVE	RANGE
FT	KIPS	KIPS	KIPS
2	8.2	4.6	12.8
7	32.1	23.8	55.9
12	62.4	44.7	107.1
17	97.9	64.4	162.3
22	148.3	82.5	230.8
27	214.8	97.6	312.4
32	293.5	111.2	404.7
37	396.5	121.6	518.1
42	521.3	130.7	652.0
47	677.5	136.8	814.0
52	854.6	142.4	997.0
57	1,081.5	146.4	1,227.9
61.3*	1,428.7	319.5	

* From Report No. 27-771-96

3.6 TRANSFER FUNCTION

A. BASE SHEAR RANGE

Assuming that a second-order polynomial is selected as the approximating transfer function

$$V_R = a_2 H^2 + a_1 H + a_0 \qquad (1)$$

where V_R = base shear range, kips
H = wave height, feet
a_2, a_1, a_0 = constant coefficients

Error at data point i is then

$$\varepsilon_i = (a_2 H_i^2 + a_1 H_i + a_0 - V_{Ri}) \qquad (2)$$

$$i = 1, 2, \cdots, m$$

m = number of data points

The sum of the error squares is

$$S = \sum_{i=1}^{m} \varepsilon_i^2 = \sum_{i=1}^{m} (a_2 H_i^2 + a_1 H_i + a_0 - V_{Ri})^2 \qquad (3)$$

For S to be a minimum it is necessary that

$$\frac{\partial S}{\partial a_2} = 0 \ ; \quad \frac{\partial S}{\partial a_1} = 0 \ ; \quad \frac{\partial S}{\partial a_0} = 0$$

or

$$\left.\begin{aligned}
&\sum_{i=1}^{m} 2H_i^2\left(a_2 H_i^2 + a_1 H_i + a_0 - V_{Ri}\right) = 0 \\
&\sum_{i=1}^{m} 2H_i\left(a_2 H_i^2 + a_1 H_i + a_0 - V_{Ri}\right) = 0 \\
&\sum_{i=1}^{m} 2\left(a_2 H_i^2 + a_1 H_i + a_0 - V_{Ri}\right) = 0
\end{aligned}\right\} \qquad (4)$$

The set of equations shown above may be expressed in matrix form as follows:

$$\begin{bmatrix}
\sum_{i=1}^{m} H_i^4 & \sum_{i=1}^{m} H_i^3 & \sum_{i=1}^{m} H_i^2 \\
\sum_{i=1}^{m} H_i^3 & \sum_{i=1}^{m} H_i^2 & \sum_{i=1}^{m} H_i \\
\sum_{i=1}^{m} H_i^2 & \sum_{i=1}^{m} H_i & m
\end{bmatrix}
\begin{bmatrix} a_2 \\ a_1 \\ a_0 \end{bmatrix}
=
\begin{bmatrix}
\sum_{i=1}^{m} H_i^2 V_{Ri} \\
\sum_{i=1}^{m} H_i V_{Ri} \\
\sum_{i=1}^{m} V_{Ri}
\end{bmatrix} \qquad (5)$$

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Date 8-10-76 Job No. 27-771-100 Calculation Wave Forces on Structures

H	H^2	H^3	H^4	V_R	HV_R	H^2V_R
2	4	8	16	12.8	25.6	51.2
7	49	343	2,401	55.9	391.3	2,739.1
12	144	1,728	20,736	107.1	1,285.2	15,422.4
17	289	4,913	83,521	162.3	2,759.1	46,904.7
22	484	10,648	234,256	230.8	5,077.6	111,707.2
27	729	19,683	531,441	312.4	8,434.8	227,739.6
32	1,024	32,768	1,048,576	404.7	12,950.4	414,412.8
37	1,369	50,653	1,874,161	518.1	19,169.7	709,278.9
42	1,764	74,088	3,111,696	652.0	27,384.0	1,150,128.0
47	2,209	103,823	4,879,681	814.0	38,258.0	1,798,126.0
52	2,704	140,608	7,311,616	997.0	51,844.0	2,695,888.0
57	3,249	185,193	10,556,001	1,227.9	69,990.3	3,989,447.1
Σ=354	14,018	624,456	29,654,102	5,495.0	237,570.0	11,161,845.0

$$\begin{bmatrix} 29,654,102 & 624,456 & 14,018 \\ 624,456 & 14,018 & 354 \\ 14,018 & 354 & 12 \end{bmatrix} \begin{bmatrix} a_2 \\ a_1 \\ a_0 \end{bmatrix} = \begin{bmatrix} 11,161,845 \\ 237,570 \\ 5,495 \end{bmatrix}$$

$$\begin{bmatrix} 2,115.43 & 44.55 & 1.0 \\ 1,764. & 39.60 & 1.0 \\ 1,168.17 & 29.50 & 1.0 \end{bmatrix} \begin{bmatrix} a_2 \\ a_1 \\ a_0 \end{bmatrix} = \begin{bmatrix} 796.25 \\ 671.10 \\ 457.92 \end{bmatrix}$$

$$\begin{bmatrix} 351.43 & 4.95 \\ 595.83 & 10.10 \end{bmatrix} \begin{bmatrix} a_2 \\ a_1 \end{bmatrix} = \begin{bmatrix} 125.15 \\ 213.18 \end{bmatrix}$$

$$\begin{bmatrix} 71.0 & 1.0 \\ 58.99 & 1.0 \end{bmatrix} \begin{bmatrix} a_2 \\ a_1 \end{bmatrix} = \begin{bmatrix} 25.28 \\ 21.11 \end{bmatrix}$$

$$12.01\, a_2 = 4.17$$

$$a_2 = 0.3472 \quad (\doteq 0.35)$$

$$a_1 = 25.28 - 71 \times 0.35 = 0.43$$

$$a_0 = 457.92 - 29.50 \times 0.43 - 1168.17 \times 0.35$$

$$= 36.38$$

$$\therefore \quad \underline{\underline{V_R = 0.35\, H^2 + 0.43\, H + 36.38}} \qquad (6)$$

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Date 8-10-76 Job No. 27-721-100 Calculation Wave Forces on Structures

WAVE HEIGHT H	BASE SHEAR FROM CURVE FITTING V_{Bi}	BASE SHEAR FROM DATA POINT V_{Bo}	ERROR $V_{Bi}-V_{Bo}$
FT	KIPS	KIPS	KIPS
2	38.48	12.8	25.68
7	56.54	55.9	0.64
12	91.94	107.1	-15.16
17	144.84	162.3	-17.46
22	215.24	230.8	-15.56
27	303.14	312.4	-9.26
32	408.54	404.7	3.84
37	531.44	518.1	13.34
42	671.84	652.0	19.84
47	829.74	814.0	15.74
52	1,005.14	997.0	8.14
57	1,198.04	1,227.9	-29.86

B. BASE SHEAR (POSITIVE – CREST APPROACHING STRUCTURE)

Assuming that the approximating transfer function is

$$V_p = b_2 H^2 + b_1 H + b_0 \tag{7}$$

According to Eq.(5) shown on Page 3.33, it gives

$$\begin{bmatrix} \sum_{i=1}^{m} H_i^4 & \sum_{i=1}^{m} H_i^3 & \sum_{i=1}^{m} H_i^2 \\ \sum_{i=1}^{m} H_i^3 & \sum_{i=1}^{m} H_i^2 & \sum_{i=1}^{m} H_i \\ \sum_{i=1}^{m} H_i^2 & \sum_{i=1}^{m} H_i & m \end{bmatrix} \begin{bmatrix} b_2 \\ b_1 \\ b_0 \end{bmatrix} = \begin{bmatrix} \sum_{i=1}^{m} H_i^2 V_{p_i} \\ \sum_{i=1}^{m} H_i V_{p_i} \\ \sum_{i=1}^{m} V_{p_i} \end{bmatrix} \tag{8}$$

$$i = 1, 2, \cdots, m$$

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Date 8-10-76 Job No. 27-771-100 Calculation Wave Forces on Structures

H	H^2	H^3	H^4	V_p	$H V_p$	$H^2 V_p$
2	4			8.2	16.4	32.8
7	49			32.1	224.7	1,572.9
12	144			62.4	748.8	8,985.6
17	289			97.9	1,664.3	28,293.1
22	484			148.3	3,262.6	71,777.2
27	729			214.8	5,799.6	156,589.2
32	1,024			293.5	9,392.0	300,544.0
37	1,369			396.5	14,670.5	542,808.5
42	1,764			521.3	21,894.6	919,573.2
47	2,209			677.5	31,842.5	1,496,597.5
52	2,704			854.6	44,439.2	2,310,838.4
57	3,249			1,081.5	61,645.5	3,513,793.5
Σ=354	14,018	624,456	29,654,102	4,388.6	195,600.7	9,351,405.9

$$\begin{bmatrix} 29,654,102 & 624,456 & 14,018 \\ 624,456 & 14,018 & 354 \\ 14,018 & 354 & 12 \end{bmatrix} \begin{bmatrix} b_2 \\ b_1 \\ b_0 \end{bmatrix} = \begin{bmatrix} 9,351,405.9 \\ 195,600.7 \\ 4,388.6 \end{bmatrix}$$

$$\begin{bmatrix} 2,115.43 & 44.55 & 1.0 \\ 1,764. & 39.60 & 1.0 \\ 1,168.17 & 29.50 & 1.0 \end{bmatrix} \begin{bmatrix} b_2 \\ b_1 \\ b_0 \end{bmatrix} = \begin{bmatrix} 667.1 \\ 552.54 \\ 365.72 \end{bmatrix}$$

$$\begin{bmatrix} 351.43 & 4.95 \\ 595.83 & 10.10 \end{bmatrix} \begin{bmatrix} b_2 \\ b_1 \end{bmatrix} = \begin{bmatrix} 114.56 \\ 186.82 \end{bmatrix}$$

$$\begin{bmatrix} 71.0 & 1.0 \\ 58.99 & 1.0 \end{bmatrix} \begin{bmatrix} b_2 \\ b_1 \end{bmatrix} = \begin{bmatrix} 23.14 \\ 18.50 \end{bmatrix}$$

$$12.01\, b_2 = 4.64$$

$$b_2 = 0.3863 \quad (=0.39)$$

$$b_1 = 23.14 - 71 \times .39 = -4.55$$

$$b_0 = 365.72 - 1,168.17 \times 0.39 + 29.5 \times 4.55$$

$$= 44.36$$

$$\therefore \underline{\underline{V_p = 0.39 H^2 - 4.55 H + 44.36}} \qquad (9)$$

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Date 8-10-76 Job No. 27-771-100 Calculation Wave Forces on Structures

WAVE HEIGHT H	BASE SHEAR FROM CURVE FITTING V_{pi}	BASE SHEAR FROM DATA POINT V_{po}	ERROR $V_{pi}-V_{po}$
FT	KIPS	KIPS	KIPS
2	36.82	8.2	28.62
7	31.62	32.1	-0.48
12	45.92	62.4	-16.48
17	79.72	97.9	-18.18
22	133.02	148.3	-15.28
27	205.82	214.8	-8.98
32	298.12	293.5	4.62
37	409.92	396.5	13.42
42	541.22	521.3	19.92
47	692.02	677.5	14.52
52	862.32	854.6	7.72
57	1,052.12	1,081.5	-29.38

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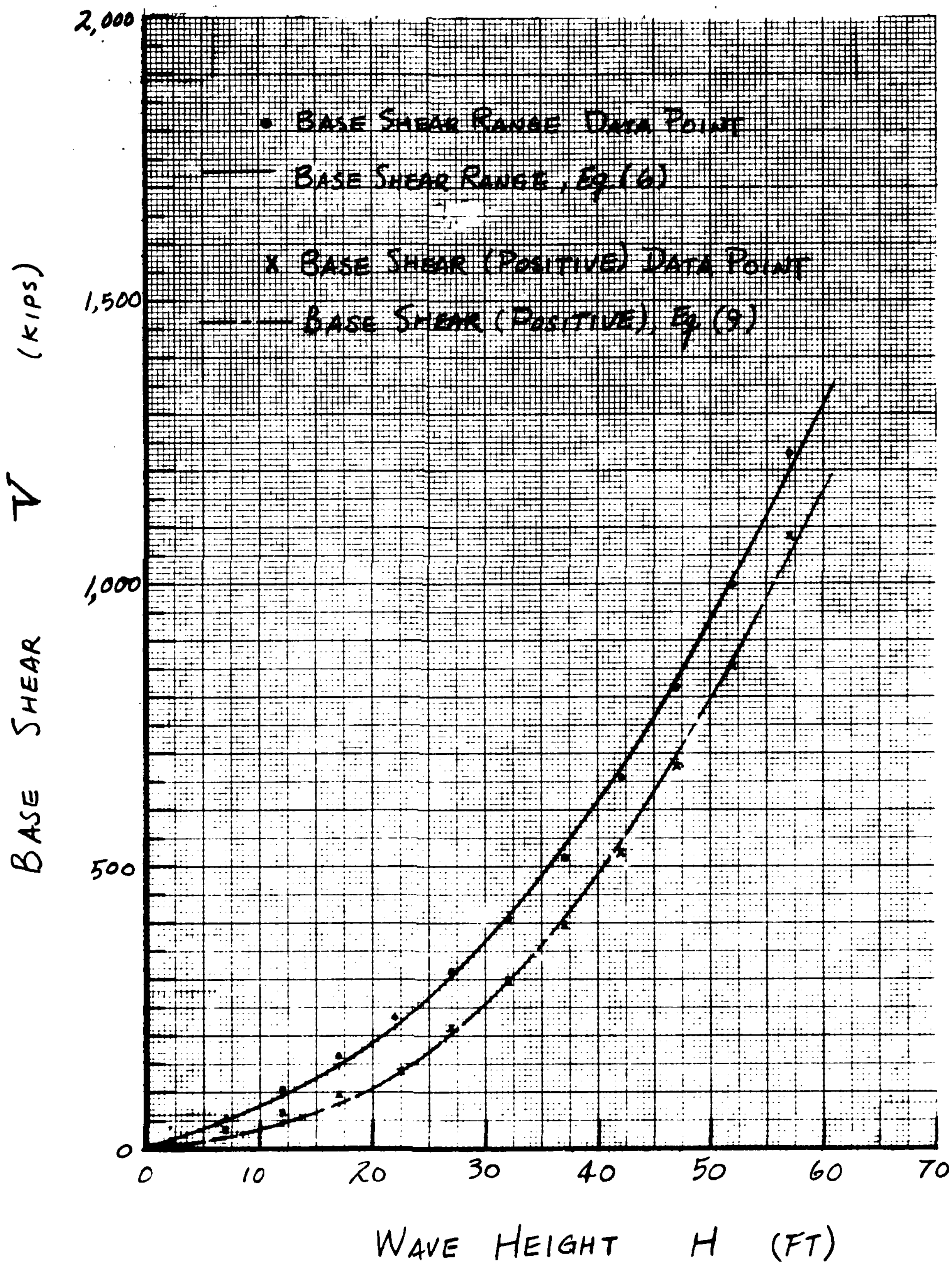
By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-10-76 Job No. 27-771-100 Calculation Wave Forces on Structures



SECTION 4

FATIGUE LIMIT STRESS

4.1 INTRODUCTION

This section evaluates the fatigue limit stress ranges for punching shear stress and nominal brace stress. The method used to perform the calculation is in accordance with that in Reference 4.

In the course of data preparation for the computation of hurricane effects on the fatigue life, two assumptions are made as follows:

(1) The significant wave height distribution can be expressed in terms of the Weibull distribution; and

(2) The possible number of hurricane occurrence in 20 years period is 6.

The punching shear stress computation is shown in APPENDIX A.

Stress analyses of the idealized platform structure subjected to wave and ocean currents are compiled in APPENDIX B.

4.2 PUNCHING SHEAR STRESS RANGE VS. CYCLES OF LOAD

From Eq.(1) of Ref.4

$$N = K/S^m \qquad (1)$$

where N = Number of stress cycles to failure

K = Constant

S = Stress range

m = constant

From Eq.(1) $\ln N = \ln K - m \ln S$

at condition a: $\ln N_a = \ln K - m \ln S_a$

at condition b: $\ln N_b = \ln K - m \ln S_b$

$$\therefore \quad m = \frac{\ln(N_a/N_b)}{\ln(S_b/S_a)}$$

and $$K = N \cdot S^m$$

From AWS D 1.1-72 Fig. 10.7.4 (Ref. 1)

Line K-K for punching shear stresses

In the range of interest:

$S_a = 10500$ psi $\qquad S_b = 2500$ psi

$N_a = 10^3$ cycles $\qquad N_b = 10^6$ cycles

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By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-4-76 Job No. 27-771-100 Calculation Fatigue Limit Stress

$$m = \frac{\ln\left(10^3/10^6\right)}{\ln\left(2500/10500\right)} = 4.81$$

and $K = 10^6 \times (2500)^{4.81} = 2.21 \times 10^{22}$

4.3 PUNCHING SHEAR STRESS RANGE VS. WAVE HEIGHT

From Eq. (2) of Ref. 4

$$S = C H^{g} \qquad (2)$$

where S = Stress range

C = Constant

H = wave height

g = constant

From Eq. (2) $\quad \ln S = \ln C + g \ln H$

$$\left.\begin{array}{ll} \text{at condition a:} & \ln S_a = \ln C + g \ln H_a \\ \text{at condition b:} & \ln S_b = \ln C + g \ln H_b \end{array}\right\}$$

$$\therefore \quad g = \frac{\ln(S_a/S_b)}{\ln(H_a/H_b)}$$

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By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-4-76 Job No. 27-771-100 Calculation Fatigue Limit Stress

Joint #803 (Brace #803-#906)

WAVE HEIGHT	JOINT PUNCHING SHEAR STRESS		
	CREST	TROUGH	RANGE
FT	KSI	KSI	KSI
7	0.167	0.121	0.288
17	0.538	0.356	0.894
27	1.144	0.557	1.701
42	2.687	0.731	3.418
61.3 *	7.454	0.150	7.604

* Design wave height, See Report No. 27-771-96

Design condition $v_{max} = 7.454$ ksi

$v_{min} = 0.150$ ksi

CREST OFFSHORE, INC.

Sheet 4.06 of 31

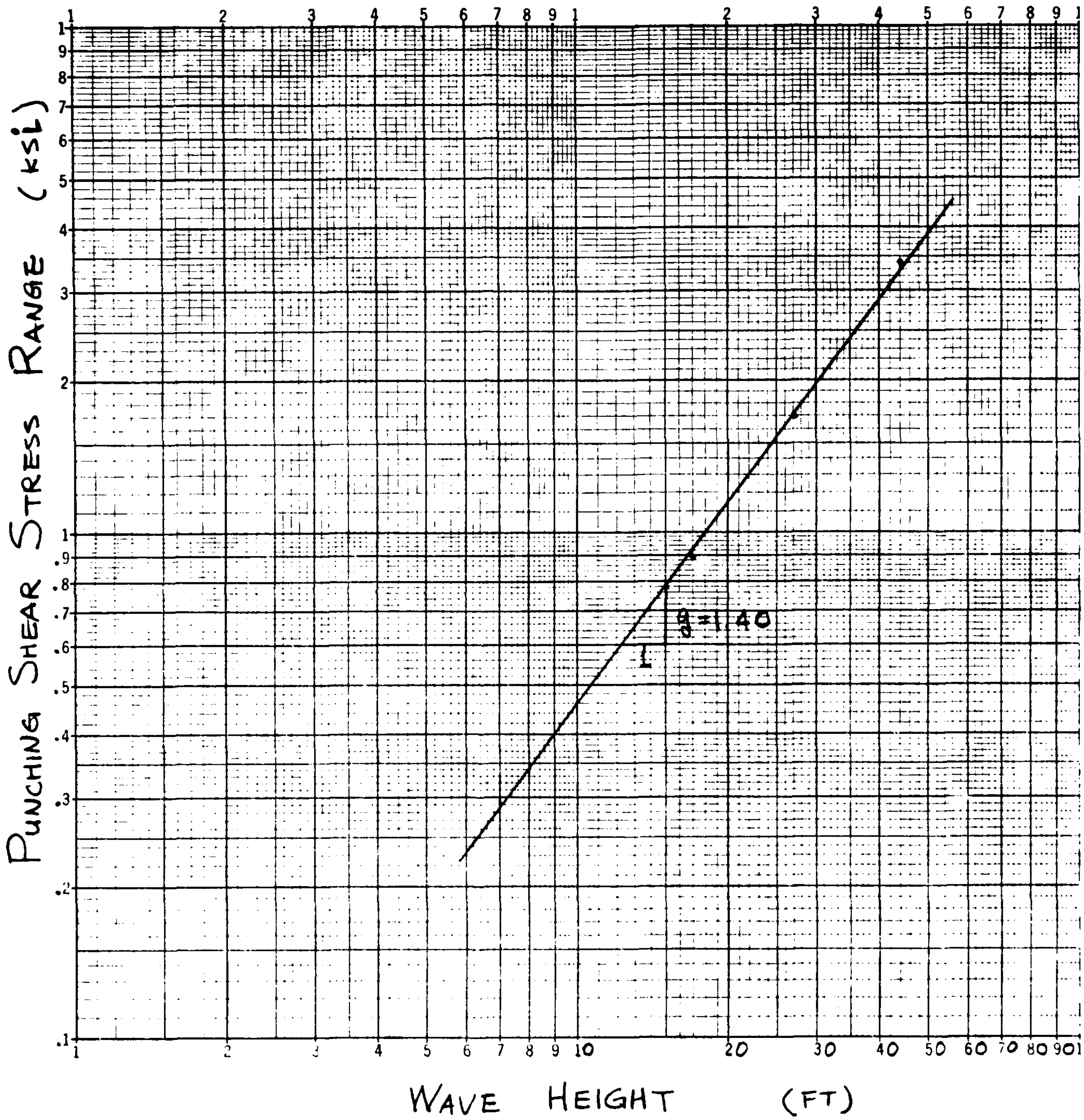
By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-4-76 Job No. 27-771-100 Calculation Fatigue Limit Stress

Condition a		Condition b		g
Wave Height (Ha)	Stress Range (Sa)	Wave Height (Hb)	Stress Range (Sb)	
FT	KSI	FT	KSI	
7	0.288	17	0.894	1.28
		27	1.701	1.31
		42	3.418	1.38
17	0.894	27	1.701	1.39
		42	3.418	1.48
27	1.701	42	3.418	1.58
			Average	1.40

CREST OFFSHORE, INC.

Sheet 4.07 of 31

By C. Chern Client U. S. NAVY Subject Fatigue Analysis
Date 8-4-76 Job No. 27-771-100 Calculation Fatigue Limit Stress



JOINT No. 803 (*803-*906)

PUNCHING SHEAR STRESS RANGE vs. WAVE HEIGHT

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-4-76 Job No. 27-771-100 Calculation Fatigue Limit Stress

JOINT #706 (BRACE #706-#803)

WAVE HEIGHT	JOINT PUNCHING SHEAR STRESS		
	CREST	TROUGH	RANGE
FT	KSI	KSI	KSI
7	.175	.101	.276
17	.538	.200	.738
27	1.142	.270	1.412
42	2.602	.348	2.950
61.3*	7.606	.350	7.956

* Design wave height, See Report No. 27-771-96

Design condition : $v_{max} = 7.606$ ksi

$v_{min} = 0.350$ ksi

CREST OFFSHORE, INC.

Sheet 4.09 of 31

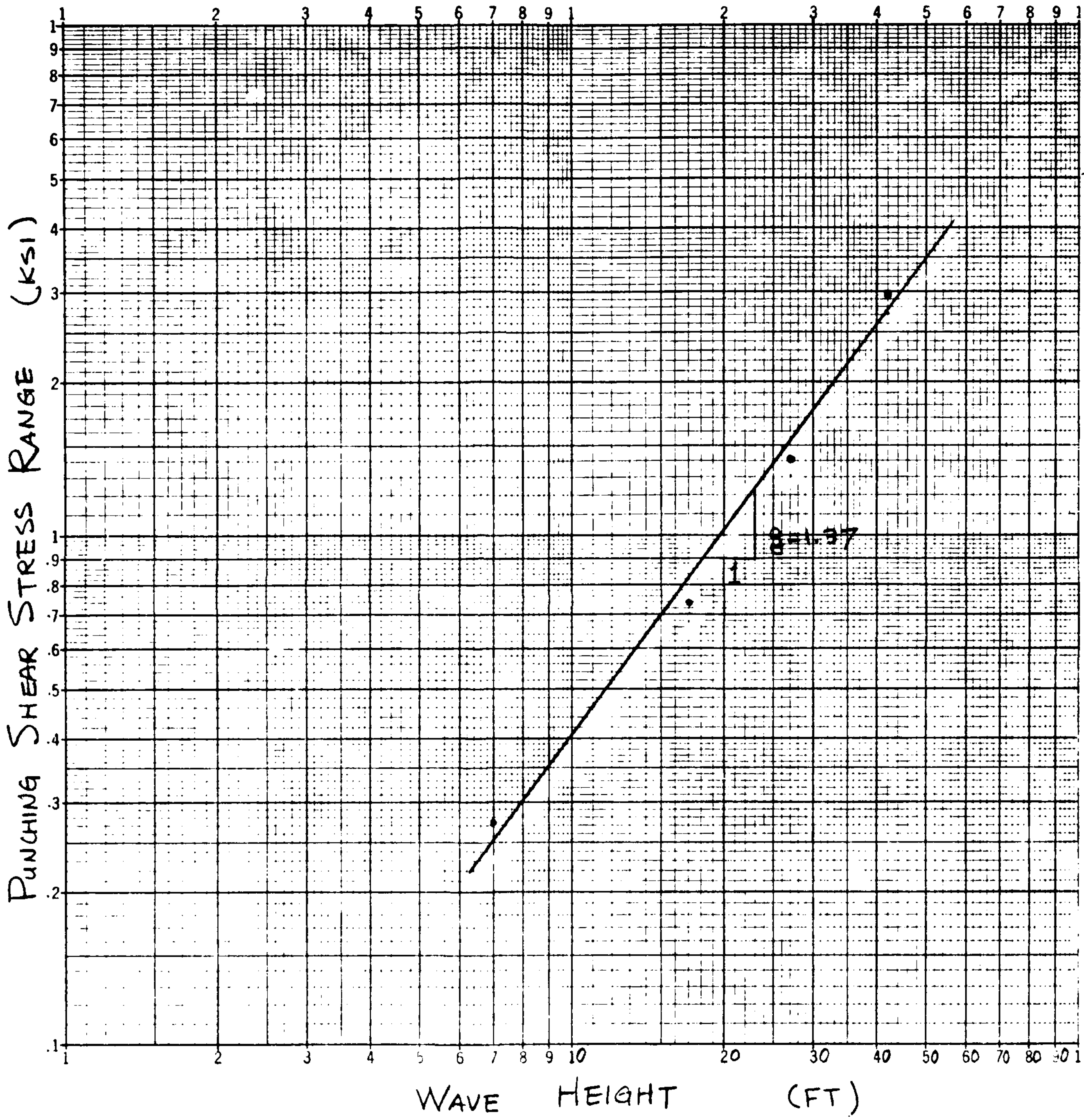
By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-4-76 Job No. 27-771-100 Calculation Fatigue Limit Stress

Condition a		Condition b		g
Wave Height (H_a)	Stress Range (S_a)	Wave Height (H_b)	Stress Range (S_b)	
FT	KSI	FT	KSI	
7	.276	17	.738	1.11
		27	1.412	1.21
		42	2.950	1.32
17	.738	27	1.412	1.40
		42	2.950	1.53
27	1.412	42	2.950	1.66
			Average	1.37

CREST OFFSHORE, INC.

Sheet 4.10 of 31

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-4-76 Job No. 27-771-100 Calculation Fatigue Limit Stress



JOINT No. 706 (#706-#803)

PUNCHING SHEAR STRESS RANGE VS. WAVE HEIGHT

4.4 LIMIT PUNCHING SHEAR STRESS FOR FATIGUE

From Eqs (10) and (12) in Ref. 4:

$$S_r = (cK/Y)^{1/m} \qquad (12)$$

where S_r = Stress range for design wave

c = constant defind by Eq.(10)

$$c = \frac{\{\ln(rM_1)\}^{\xi m/\xi}}{M_1 \Gamma(1+\xi m/\xi)} \qquad (10)$$

r = return period for design wave

K = Constant in fatigue curve K-K

M_1 = number of waves in one year

ξ = Weibull parameter

Y = fatigue life in years

m = Constant.

CREST OFFSHORE, INC.

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-4-76 Job No. 27-771-100 Calculation Fatigue Limit Stress

$m = 4.81$ $q = 1.40$

$K = 2.21 \times 10^{22}$ $\xi = 1$ *P(H) is an exponential distribution*

$M_1 = 98{,}840{,}000/20$
$= 4{,}942{,}000$

$Y = 20$ yrs $r = 50$ yrs

$$qm/\xi = 1.40 \times 4.81/1.0 = 6.73$$

$$\Gamma(1 + qm/\xi) = \Gamma(1 + 6.73)$$
$$= 6.73 \times 5.73 \times 4.73 \times 3.73 \times 2.73 \times 1.73 \times \Gamma(1.73)$$

$\Gamma(1.73) = 0.91466$

$\Gamma(7.73) = 2939$

$$c = \frac{\{\ln(50 \times 4{,}942{,}000)\}^{6.73}}{4{,}942{,}000 \times 2939} = 0.0311$$

$$cK = 0.0311 \times 2.21 \times 10^{22} = 6.873 \times 10^{20}$$

$$S_r = \left(\frac{6.873 \times 10^{20}}{20}\right)^{1/4.81} = \left(\frac{6.873 \times 10^{10}}{20} \times 10^{10}\right)^{1/4.81}$$

$$= 96.06 \times 119.95$$

$$= 11{,}523 \text{ psi}$$

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-4-76 Job No. 27-77L-100 Calculation Fatigue Limit Stress

4.5 NOMINAL BRACE STRESS RANGE VS. CYCLES OF LOAD

From Eq.(1) of Ref.4

$$N = K / S^m \qquad (1)$$

it gives

$$m = \frac{\ln(N_a / N_b)}{\ln(S_b / S_a)}$$

$$K = N S^m$$

From Line D'-D', Fig. 10.7.4 AWS D1.1-72

In the range of interest:

$S_a = 22,000$ psi $\quad S_b = 6900$ psi
$N_a = 4.0 \times 10^3$ cycles $\quad N_b = 1.0 \times 10^6$ cycles

$$m = \frac{\ln\left(\frac{4.0 \times 10^3}{1.0 \times 10^6}\right)}{\ln\left(\frac{6900}{22,000}\right)} = 4.80$$

$$K = 10^6 \times (6900)^{4.80} = 2.67 \times 10^{24}$$

4.6 NOMINAL BRACE STRESS RANGE VS. WAVE HEIGHT

From Eq.(2) of Ref. 4

$$S = CH^g \qquad (2)$$

it gives

$$g = \frac{\ln(S_a / S_b)}{\ln(H_a / H_b)}$$

JOINT #803 (BRACE #803-#906)

WAVE HEIGHT	NOMINAL BRACE STRESS				
	CREST		TROUGH		RANGE
	AXIAL	BENDING	AXIAL	BENDING	
FT	KSI	KSI	KSI	KSI	KSI
7	-.240	∓.056	+.176	±.039	0.511
17	-.665	∓.285	+.395	±.233	1.578
27	-1.436	∓.582	+.552	±.428	2.998
42	-3.374	∓1.369	+.687	±.599	6.029
61.3*	-8.463	∓4.677	-.127	±.132	13.399

* Design wave height, See Report No. 27-771-96

Design condition: $f_{max} = -13.140$

$f_{min} = +0.005$

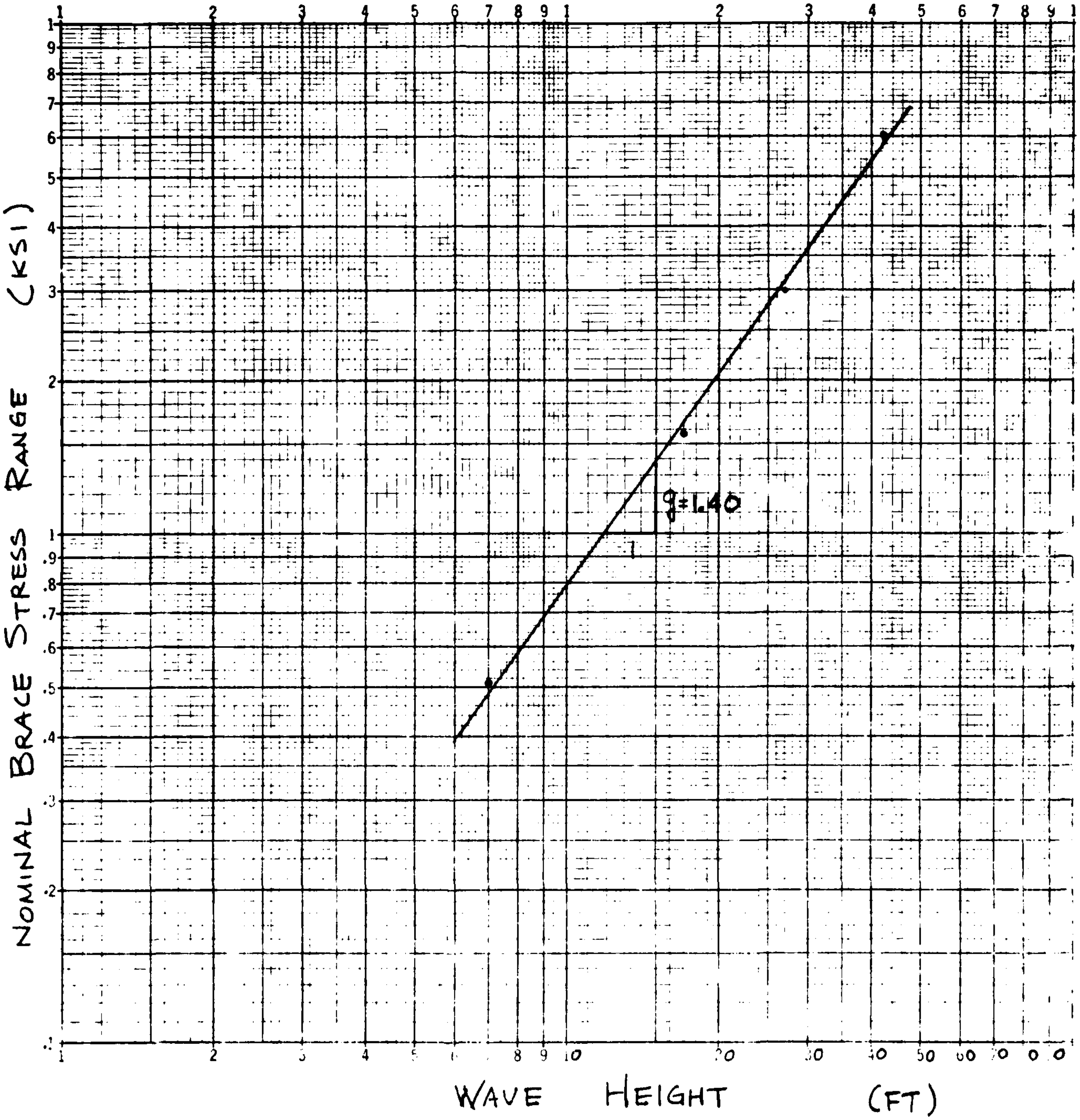
By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-4-76 Job No. 27-771-100 Calculation Fatigue Limit Stress

CONDITION a		CONDITION b		g
WAVE HEIGHT (H_a)	STRESS RANGE (S_a)	WAVE HEIGHT (H_b)	STRESS RANGE (S_b)	
FT	KSI	FT	KSI	
7	0.511	17	1.578	1.27
		27	2.998	1.31
		42	6.029	1.38
17	1.578	27	2.998	1.38
		42	6.029	1.48
27	2.998	42	6.029	1.58
			AVERAGE	1.40

CREST OFFSHORE, INC.

Sheet 4.17 of 31

By C. Chen Client U.S. NAVY Subject Fatigue Analysis
Date 8-5-76 Job No. 27-771-100 Calculation Fatigue Limit Stress



JOINT #803 (#803-#906)

NOMINAL BRACE STRESS RANGE VS. WAVE HEIGHT

CREST OFFSHORE, INC.

Sheet 4.13 of 31

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-5-76 Job No. 27-771-100 Calculation Fatigue Limit Stress

JOINT #706 (BRACE #706-#803)

WAVE HEIGHT	NOMINAL BRACE STRESS				
	CREST		TROUGH		RANGE
	AXIAL	BENDING	AXIAL	BENDING	
FT	KSI	KSI	KSI	KSI	KSI
7	+.189	±.123	-.137	∓.044	0.493
17	+.545	±.414	-.281	∓.077	1.317
27	+1.302	±.739	-.377	∓.108	2.526
42	+3.144	±1.510	-.447	∓.176	5.277
61.3*	+8.440	±5.146	+.184	∓.416	14.186

* Design wave height, See Report No. 27-771-96

Design condition: $f_{max} = +13.586$

$f_{min} = -0.232$

CREST OFFSHORE, INC.

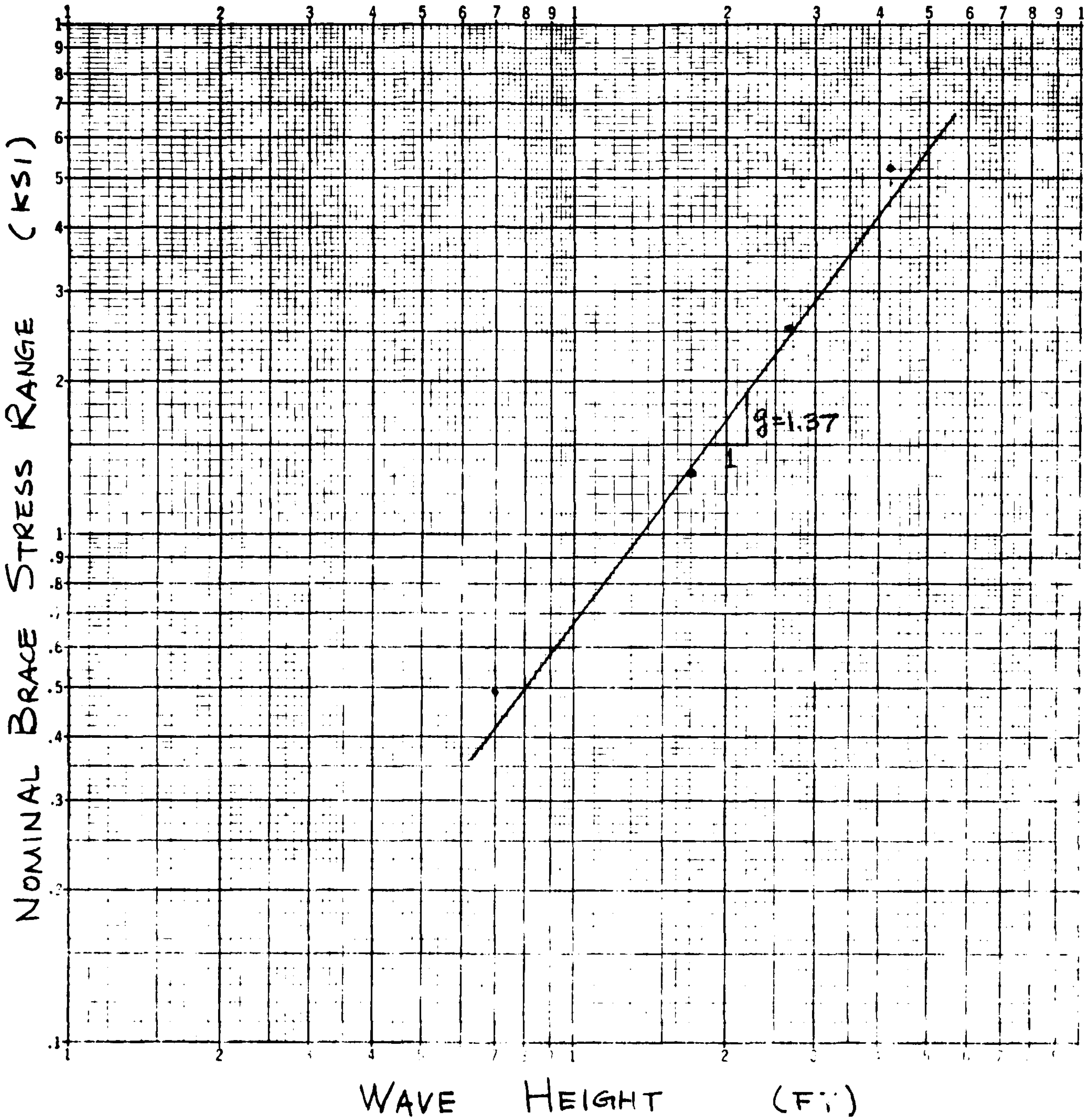
By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-5-76 Job No. 22-771-100 Calculation Fatigue Limit Stress

Condition a		Condition b		q
Wave Height (H_a)	Stress Range (S_a)	Wave Height (H_b)	Stress Range (S_b)	
FT	KSI	FT	KSI	
7	0.493	17	1.317	1.10
		27	2.526	1.21
		42	5.277	1.32
17	1.317	27	2.526	1.41
		42	5.277	1.53
27	2.526	42	5.277	1.67
			Average	1.37

CREST OFFSHORE, INC.

Sheet 4.20 of 31

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-5-76 Job No. 27-221-100 Calculation Fatigue Limit Stress



JOINT #706 (#706- #803)

NOMINAL BRACE STRESS RANGE VS. WAVE HEIGHT

CREST OFFSHORE, INC.

Sheet 4.21 of 31

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-5-76 Job No. 27-771-100 Calculation Fatigue Limit Stress

4.7 LIMIT NOMINAL BRACE STRESS FOR FATIGUE

$$S_r = \left(ck/Y \right)^{1/m}$$

$$c = \frac{\{\ln(rM_1)\}^{gm/\xi}}{M_1 \Gamma(1 + gm/\xi)}$$

$r = 50$ yrs return period for design wave

$Y = 20$ yrs fatigue life

$\xi = 1.0$ for exponential distribution of $p(H)$ curve

$M_1 = 4{,}940{,}000$ number of waves in one year

$g = 1.40$

$m = 4.80$

$K = 2.67 \times 10^{24}$

$$gm/\xi = 1.40 \times 4.80/1.0 = 6.72$$

$$\Gamma(1+6.72) = 6.72 \times 5.72 \times 4.72 \times 3.72 \times 2.72 \times 1.72 \times 0.9125$$
$$= 2{,}881$$

$$c = \frac{\{\ln(50 \times 4{,}940{,}000)\}^{6.72}}{4{,}940{,}000 \times 2{,}881} = 0.0309$$

CREST OFFSHORE, INC.

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-5-76 Job No. 27-771-100 Calculation Fatigue Limit Stress

$$cK = 0.0309 \times 2.67 \times 10^{24} = 8.250 \times 10^{22}$$

$$S_r = \left(\frac{8.250 \times 10^{22}}{20}\right)^{1/4.80}$$

$$= \left(\frac{8.250 \times 10^{12}}{20} \cdot 10^{10}\right)^{1/4.80}$$

$$= 262.95 \times 121.15$$

$$= 31,857 \text{ psi} \quad > 22,000 \text{ psi per API}$$

4.8 HURRICANE EFFECTS ON FATIGUE LIMIT STRESS

Fatigue Damage = Damage due to Normal Waves (Part I)

+ Damage due to Hurricanes (Part II)

(I) Damage due to Normal Waves

According to Ref. 4, long term damage in terms of significant wave height is given by Eq. 16 which follows

$$D N_r = M\,\Gamma(1+gm/2)\,\Gamma(1+gm/\alpha)\left\{\frac{h}{\sqrt{2}\,H_r}\right\}^{gm} \qquad (16)$$

if the significant wave height distribution can be expressed in terms of the Weibull distribution:

$$P(H_s) = 1 - e^{-\left(\frac{H_s}{h}\right)^{\alpha}} \qquad (6)$$

where D = fatigue damage

N_r = the number of cycles to failure for the stress range resulting from design wave height

M = the total number of waves

H_s = significant wave height

H_r = design wave height

h, α = constants in Eq. (6)

Constants α and h

From Eq. (6)

$$P(H_s) = 1 - e^{-\left(\frac{H_s}{h}\right)^\alpha} \qquad (6)$$

$$e^{-\left(\frac{H_s}{h}\right)^\alpha} = 1 - P(H_s)$$

$$\ln\left[e^{-\left(H_s/h\right)^\alpha}\right] = \ln\left[1 - P(H_s)\right]$$

$$\left(\frac{H_s}{h}\right)^\alpha = -\ln\left[1 - P(H_s)\right]$$

$$\alpha\left[\ln H_s - \ln h\right] = \ln\left\{-\ln\left[1 - P(H_s)\right]\right\}$$

Condition a: $\alpha\left[\ln H_{sa} - \ln h\right] = \ln\left\{-\ln\left[1 - P(H_{sa})\right]\right\}$

Condition b: $\alpha\left[\ln H_{sb} - \ln h\right] = \ln\left\{-\ln\left[1 - P(H_{sb})\right]\right\}$

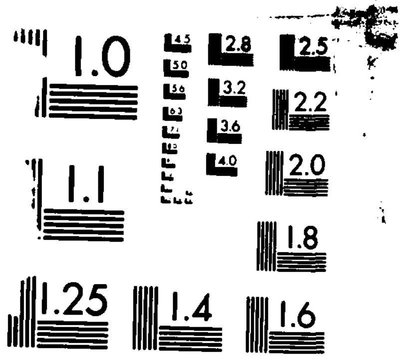
$$\alpha \ln\left(\frac{H_{sa}}{H_{sb}}\right) = \ln \frac{\ln\left[1 - P(H_{sa})\right]}{\ln\left[1 - P(H_{sb})\right]}$$

$$\alpha = \frac{\ln\left\{\ln\left[1 - P(H_{sa})\right] / \ln\left[1 - P(H_{sb})\right]\right\}}{\ln\left(H_{sa}/H_{sb}\right)} \quad \cdots\cdots (a)$$

and $$h = H_s \Big/ \left\{-\ln\left[1 - P(H_s)\right]\right\}^{1/\alpha} \quad \cdots\cdots (b)$$

AD-A165 651 FATIGUE ANALYSIS EAST COAST AIR COMBAT MANEUVERING RANGE OFFSHORE KITTY H. (U) CREST ENGINEERING INC TULSA OK SEP 76 27-771-100 CHES/NAVFAC-FPO-7616 2/6

UNCLASSIFIED N62477-76-C-0179 F/G 13/13 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963 A

CREST OFFSHORE, INC.

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-16-76 Job No. 27-771-100 Calculation Fatigue Limit Stress

Refer to A.H. Glenn and Associates' Report:

Page 2, $H_s = H_{max}/1.86$

& Table 39

WAVE HEIGHT CATAGORY	AVERAGE WAVE HEIGHT	SIGNIFICANT WAVE HEIGHT H_s	NUMBER OF WAVES IN 20 Yrs	PROBABILITY DENSITY DISTRIBUTION $p(H_s)$	CUMULATIVE PROBABILITY DENS. DISTRI. $P(H_s)$
FT	FT	FT			
0 ~ 4	2	2.15	76,040,000	0.76932416	0.76932416
5 ~ 9	7	4.84	18,380,000	0.18595710	0.95528126
10 ~ 14	12	7.53	3,563,000	0.03604816	0.99132942
15 ~ 19	17	10.22	689,000	0.00697086	0.99830028
20 ~ 24	22	12.90	135,400	0.00136989	0.99967017
25 ~ 29	27	15.59	26,250	0.00026558	0.99993575
30 ~ 34	32	17.20	5,100	0.00005160	0.99998735
35 ~ 39	37	20.97	999	0.00001011	0.99999746
40 ~ 44	42	23.66	200	0.00000202	0.99999948
45 ~ 49	47	26.34	41	0.00000042	0.99999990
50 ~ 54	52	29.03	8	0.00000008	0.99999998
55 ~ 59	57	31.72	2	0.00000002	1.00000000
			M=98,840,000	1.00000000	

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-16-76 Job No. 22-771-100 Calculation Fatigue Limit Stress

Condition a		Condition b		α	h
Significant Wave Ht. (H_{sa})	Cumulative Prob. $P(H_{sa})$	Significant Wave Ht. (H_{sb})	Cumulative Prob. $P(H_{sb})$		
FT		FT			FT
4.84	0.95528126	10.22	0.99830028	0.962	1.489
		15.59	0.99993575	0.969	1.502
		23.66	0.99999948	0.969	1.502
10.22	0.99830028	15.59	0.99993575	0.982	1.549
		23.66	0.99999948	0.976	1.531
15.59	0.99993575	23.66	0.99999948	0.970	1.506
			Average	0.971	1.513

Notes: α = Eq. (a)

h = Eq. (b)

The available data for Eq.(16) are as follows:

$M = 98,840,000$ (Page 4.25)

$g = 1.40$ (Pages 4.06 & 4.16)

$m = 4.80$ (Pages 4.03 & 4.13)

$\alpha = 0.971$

$h = 1.513$ FT

$H_r = 61.3$ FT

$gm = 1.40 \times 4.80 = 6.72$

$gm/\alpha = 6.92$

$$\Gamma(1 + gm/2) = \Gamma(1 + 3.36) = 3.36 \times 2.36 \times 1.36 \times \Gamma(1.36) = 9.60$$

$\Gamma(1.36) = .890$

$$\Gamma(1 + gm/\alpha) = \Gamma(1 + 6.92)$$

$$= 6.92 \times 5.92 \times 4.92 \times 3.92 \times 2.92 \times 1.92 \times \Gamma(1.92)$$

$$= 4,288$$

$\Gamma(1.92) = .968$

$$DN_r = 98,840,000 \times 9.60 \times 4288 \times \left\{ \frac{1.513}{\sqrt{2} \times 61.3} \right\}^{6.72}$$

$$= 6.23 \quad \ldots\ldots\ldots\ldots \quad (17)$$

for the fatigue damage resulting in 20 years from nonhurricane waves.

Assuming that the expected number of hurricanes in 20 years is 6* ($\eta = 6$) and that the value of 20 percent probability of exceeding the design stress range is selected, then Fig. 4 of Reference 4 gives

$$\frac{DN_r}{\eta} = 4$$

$$DN_r = 4\eta = 24 \quad \ldots\ldots\ldots\ldots (21)$$

(III) TOTAL FATIGUE DAMAGE

$$DN_r = 6.23 + 24 \doteq 30 \quad \ldots\ldots\ldots\ldots (22)$$

for the fatigue damage with a 20 percent chance of being exceeded in 20 years for the design structure.

* $\eta = 6$ is the largest number of hurricanes available from Fig. 4 of Ref. 4

According to Eq. 24 of Reference 4, the damage is

$$D = 30\, S_r^{m} / K \qquad (24)$$

(i) For Punching Shear Stress

$S_r = 7{,}956$ psi (see Page 4.08)

$K = 2.21 \times 10^{22}$

$m = 4.8$

$$D = 30 \times (7{,}956)^{4.8} / (2.21 \times 10^{22})$$
$$= 0.0072$$

(ii) For Nominal Brace Stress

$S_r = 13{,}586$ psi (See Page 4.18)

$K = 2.67 \times 10^{24}$

$m = 4.8$

$$D = 30 \times (13{,}586)^{4.8} / (2.67 \times 10^{24})$$
$$= 0.00078$$

According to Eq.(25) of Reference 4, the fatigue limit stress is defined if D is specified by the designer.

$$S_r = (DK/30)^{1/m} \qquad (25)$$

If D=.5 is selected in 20 years with a 20 percent chance of being exceeded, the limit stress for

(i) Punching Shear Stress

$K = 2.21 \times 10^{22}$;

$m = 4.8$

$$S_r = (.5 \times 2.21 \times 10^{22}/30)^{1/4.8}$$

$$= 19,259 \text{ psi}$$

(ii) Nominal Brace Stress

$K = 2.67 \times 10^{24}$;

$m = 4.8$

$$S_r = (.5 \times 2.67 \times 10^{24}/30)^{1/4.8}$$

$$= 52,289 \text{ psi} \quad > 36,000 \text{ psi}$$

(yield stress)

4.9 Fatigue Strength of a T-Joint

(A) Fatigue Limit Stress Under Persistent Severe Storm

Ref. p. 4.12

$m = 4.81$ $\quad\quad M_1 = 4{,}942{,}000$

$\xi = 1.0$ $\quad\quad y = 20$ yrs

$g = 1.40$ $\quad\quad r = 50$ yrs

$$\frac{gm}{\xi} = 6.73$$

Curve T-T of AWS D 1.1 - 72 (p. 6.02)

$S_a = 5{,}250$ psi $\quad\quad S_b = 1{,}250$ psi

$N_a = 10^3$ cycles $\quad\quad N_b = 10^6$ cycles

$$m = \frac{\ln(10^3/10^6)}{\ln(1250/5250)} = 4.81$$

$$K = 10^6 \times (1250)^{4.81} = 7.873 \times 10^{20}$$

$$\Gamma(1 + gm/\xi) = \Gamma(1 + 6.73)$$

$$= 6.73 \times 5.73 \times 4.73 \times 3.73 \times 2.73 \times 1.73 \times \Gamma(1.73)$$

$$= 2939$$

$$C = \frac{\{\ln(50 \times 4{,}942{,}000)\}^{6.73}}{4{,}942{,}000 \times 2939} = 0.0311$$

$$CK = 0.0311 \times 7.873 \times 10^{20} = 0.2449 \times 10^{20}$$

CREST OFFSHORE, INC.

By J. Talbot Client U.S. Navy Subject Fatigue Analysis
Date 10-6-76 Job No. 27-771-100 Calculation Fatigue Limit Stress

$$S_r = \left(\frac{0.2449 \times 10^{20}}{20}\right)^{1/4.81}$$

$S_r = 5761$ psi

(B) Hurricane Effects on Fatigue Limit Stress

$$S_r = (Dk/31.2)^{1/m}$$

$D = 0.5$
$k = 7.873 \times 10^{20}$
$m = 4.81$

$$S_r = \left(\frac{0.5 \times 7.873 \times 10^{20}}{30}\right)^{1/4.81}$$

$S_r = 9433$ psi

(C) Fatigue Life

$$Y = c\,N_r$$

$S_r = 5.38$ ksi (Design Punching Shear Stress, 105' MLW, Ld. Cn #11 + #15)

From Fig. 10.7.4 AWS D1 1-72, Line T-T (p. 6.02)

$N_r = 9.0 \times 10^2$

$Y = 0.0311 \times (9.0 \times 10^2) = 28.0$ years

(D) Maximum T-Joint Punching Shear Stress Range - 20 year Fatigue Life

$$Y = C N_r$$

$$Y = 20 \text{ yrs}$$
$$C = 0.0311$$

$$N_r = \frac{20}{0.0311} = 6.43 \times 10^2 \text{ cycles}$$

AWS D1.1-72 Fig. 10.7.4, Line T-T, (p. 6.02)

$$\underline{\underline{S_r = 6.1 \text{ ksi}}}$$

Note: $S_r = 6.0$ ksi is in good agreement with the result of closed-form analysis $S_r = 5.76$ ksi)

By J. Talbot Client U.S. Navy Subject Fatigue Analysis
Date 10-6-76 Job No. 27-771-100 Calculation Fatigue Limit Stress

(E) Check T-Joints for Fatigue Life

Jacket for 105' MLW Structure

T-Joint	Maximum Punching Shear (ksi)	Maximum Punching Shear Range (ksi)	Stress for Fatigue Life of 20yrs	Stress for Fatigue Life of 28 yrs
1001	5.169	5.287	6.10	5.38
1003	5.614	5.381	6.10	5.38
1006	4.545	4.691	6.10	5.38

Maximum Punching Shear from Appendix A.2
Load Conditions 10 - 13

Minimum Punching Shear from Appendix A.2
Load Conditions 14 - 17

$$\left(\frac{\text{Punching Shear}}{\text{Punching Shear Range}}\right)_{max} = \frac{5.614}{5.38} = 1.04$$

Use 1.04 for 93' MLW Structure
and 81' MLW Structure

By J. Talbot Client U.S. Navy Subject Fatigue Analysis
Date 10-6-76 Job No. 27-771-100 Calculation Fatigue Limit Stress

Jacket for 93' MLW Structure

T-Joint	Maximum Punching Shear (ksi)	Maximum Punching Shear Range (ksi)	Stress for Fatigue Life of 20yrs	Stress for Fatigue Life of 28 yrs
1001	5.245	5.45	6.10	5.38
1003	5.902	6.13	6.10	5.38
1006	4.247	4.41	6.10	5.38

Maximum Punching Shear from Appendix A.3

$$M.S. = \frac{6.13}{6.10} - 1.00 = +.005 \quad \therefore OK$$

By J. Talbot Client U.S. Navy Subject Fatigue Analysis
Date 10-6-76 Job No. 27-771-100 Calculation Fatigue Limit Stress

Jacket for 81' MLW Structure

T-Joint	Maximum Punching Shear (ksi)	Maximum Punching Shear Range (ksi)	Stress for Fatigue Life of 20yrs	Stress for Fatigue Life of 28 yrs
1001	4.358	4.53	6.10	5.38
1003	3.306	3.44	6.10	5.38
1006	3.613	3.76	6.10	5.38

Maximum Punching Shear from Appendix A.4

SECTION 5

FATIGUE LIFE OF STRUCTURE

5.1 INTRODUCTION

Fatigue life of structure is evaluated in accordance with the method presented in Reference 4.

5.2 FATIGUE LIFE - PUNCHING SHEAR CONTROL

From Eq.(9) in Ref. 4

$$Y = c N_r \tag{9}$$

where Y = fatigue life in years

c = constant defined by Eq.(10)

$$c = \frac{\{\ln(\gamma M_1)\}^{g m/\xi}}{M_1 \Gamma(1 + g m/\xi)} \tag{10}$$

Design punching shear stress range for joint #706

$S_r = 7.956$ ksi (p. 4.08)

From Fig. 10.7.4 AWS D1.1-72, Line K-K (p. 6.02)

$N_r = 4.5 \times 10^3$

Since $c = 0.0311$

$Y = 0.0311 \times (4.5 \times 10^3)$

$= 140.0$ (Years)

5.3 FATIGUE LIFE - NOMINAL BRACE STRESS CONTROL

$$Y = cN_r$$

Design nominal brace stress range for joint #706

$$S_r = 13.586 \text{ ksi}$$

From Fig. 10.7.4 AWS D1.1-72, Line D'-D'

$$N_r = 2.4 \times 10^4$$

$$Y = 0.0309 \times (2.4 \times 10^4)$$

$$= 741.6 \text{ (years)}$$

SECTION 6

MODIFIED GOODMAN DIAGRAM FOR DESIGN

6.1 INTRODUCTION

Set forth herein is the graphical representation of fatigue strengths.

The documents employed for determination of strength limitation are as follows:

(a) Manual of Steel Construction, 7th Edition, American Institute of Steel Construction, New York, N.Y. 1969

(b) Specification API RP2A, Recommended Practice for Planning, Designing and Constructing Fixed Offshore Platforms, *7th Edition*, Americam Petroleum Institute, Dallas, Texas, 1976.

6.2 AWS ALLOWABLE FATIGUE STRESS RANGES

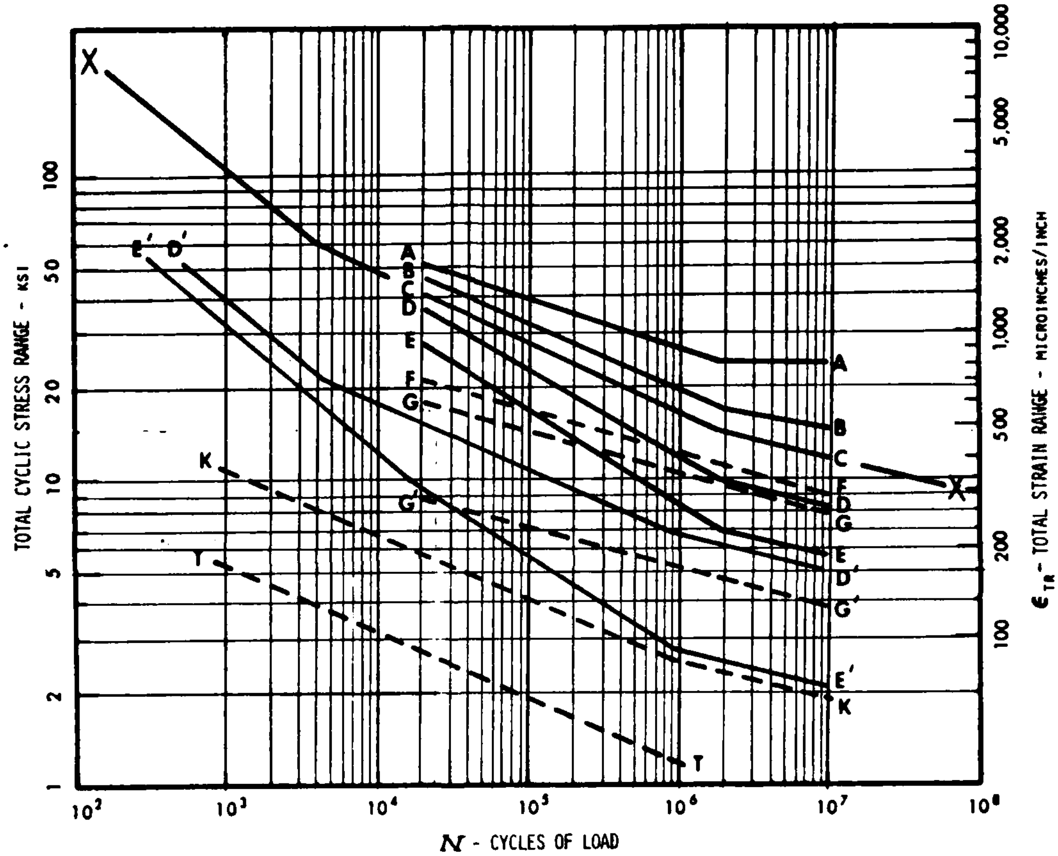


Fig. 10.7.4—Allowable fatigue stress and strain ranges for stress categories. See Table 10.7.3

AWS D1.1-72

CREST OFFSHORE, INC.

Sheet 6.03 of 10

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 6-16-76 Job No. 27-771-100 Calculation Modified Goodman Diagram

Stress Categories For Type and Location of Material

AWS D1.1-72

Stress Category	Situation	Kinds of Stress*
A	Plain unwelded pipe.	TCBR
A	Butt splices, no change in section, complete joint penetration groove welds, ground flush, and inspected by RT or UT.	TCBR
B	Pipe with longitudinal seam.	TCBR
B	Butt splices, complete joint penetration groove welds, ground flush.	TCBR
B	Members with continuously welded longitudinal stiffeners.	TCBR
C	Butt splices, complete joint penetration groove welds, as welded.	TCB[illegible]
D	Members with transverse (ring) stiffeners, or miscellaneous attachments such as clips, brackets, etc.	TC[illegible]R
D	Tee and cruciform joints with complete joint penetration welds (except at tubular connections).	TC[illegible]R
**D′	Simple T, Y, or K connections with complete joint penetration tubular groove welds conforming to Fig. 10.13.1.1.	TCBR in [illegible]anch member (NOTE [illegible] main member must be c[illegible]ecked separately per cate[illegible]ory K or T.
E	Balanced tee and cruciform joints with partial joint penetration groove welds or fillet welds (except at tubular connections).	TCBR [illegible] member
E	Members where doubler wrap, cover plates, longitudinal stiffeners, gusset plates, etc., terminate (except at tubular connections).	TC[illegible] in member
**E′	Simple T, Y, and K-type tubular connections with partial joint penetration groove welds or fillet welds; also complex tubular connections in which load transfer is accomplished by overlap (negative eccentricity), gusset plates, ring stiffeners, etc.	TCBR in branch member (NOTE — main member in simple T, Y, or K connections must be checked separately per category K or T; weld must also be checked per Category G and 10.5.3.
F	End weld of cover plate or doubler wrap; welds on gusset plates, stiffeners, etc.	Shear in weld.
G	Tee and cruciform joints, simple T, Y or K connections, loaded in tension or bending, having fillet or partial joint penetration groove welds.	Shear in weld, (regardless of direction of loadin[illegible])
X	Main member at simple T, Y, and K connection.	Hot-spot, stress or st[illegible]n on the outside surface of the main member, at the toe of weld joining [illegible]anch member — meas[illegible] in model or prototype connection, or calc[illegible]ated with best availabl[illegible] theory.
X	Unreinforced cone-cylinder intersection.	Hot-spot stress at angle change.
X	Connections whose adequacy is determined by testing an accurately scaled steel model.	Worst meas[illegible] hot-spot strain, af[illegible] shakedown.
***K	Simple K-type tubular connections in which gamma ratio R/T of main member does not exceed 24.	Punchin[illegible] on shear area of [illegible] member as defined [illegible] 8.3.
***T	Simple T and Y tubular connections in which gamma ratio R/T of main member does not exceed 24.	Punch[illegible]ear on shear area [illegible]n member as defin[illegible].0.8.3.

* T = tension, C = compression, B = bending, R = reversal.

** Empirical curves (Fig. 10.7.4) based on "typical" connection geometries; if actu[illegible] stress concentration factors or ho[illegible]t strains are known use of curve X is to be preferred.

*** Empirical curves (Fig. 10.7.4) based on tests with gamma (R/T) of 18 to 24; [illegible] err on safe side for very heavy [illegible] members (low R/T); for R/T greater than 24 reduce allowable stress in proportion to

$$\frac{\text{Allowable fatigue stress}}{\text{Stress from curve T or K}} = \left(\frac{24}{R/T}\right)^{0.7}$$

Where actual stress concentration factors or hot-spot strains are known, use [illegible]urve X is to be preferred.

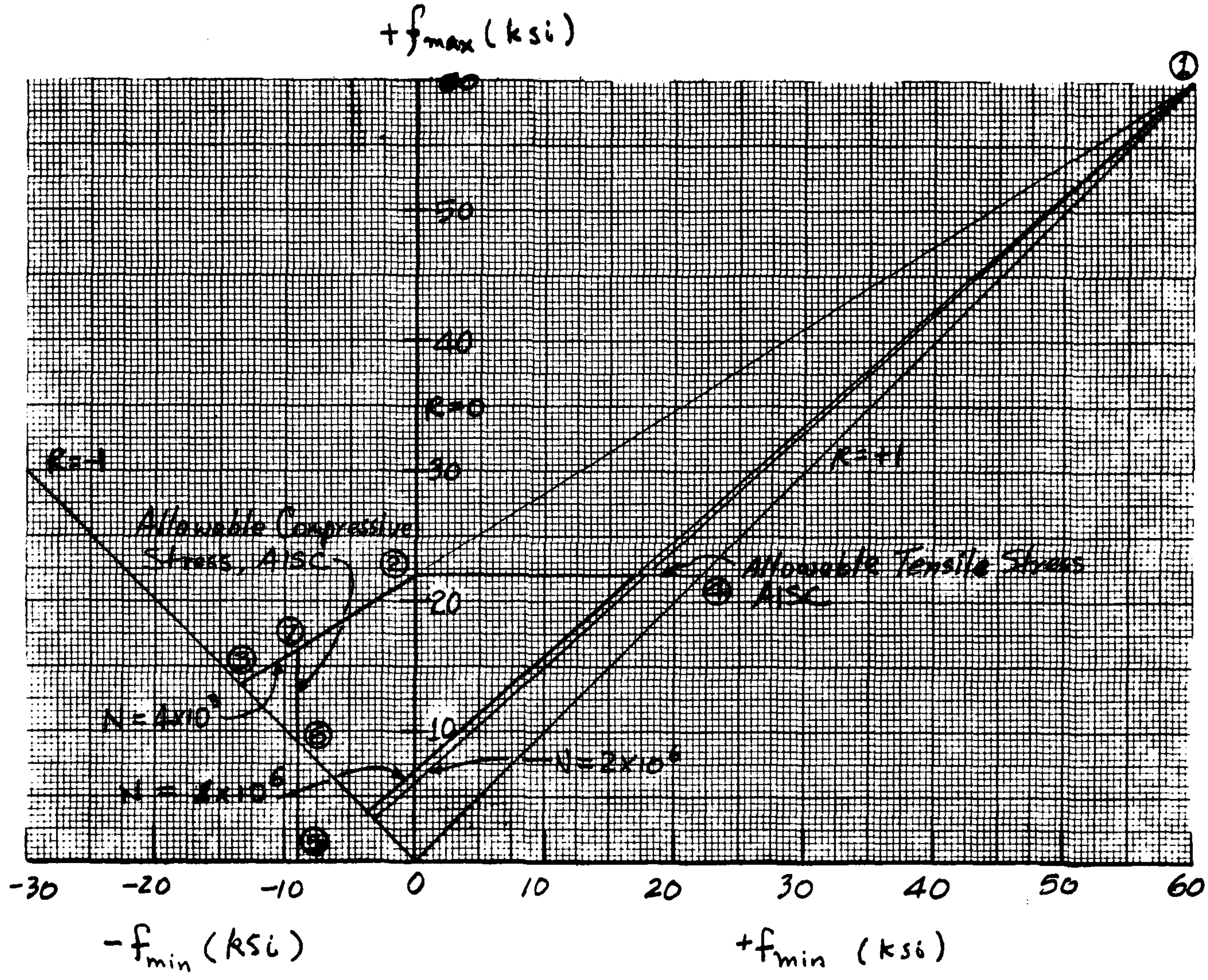
CREST OFFSHORE, INC.

Sheet 6.24 of 10

By C. Chern Client U.S.NAVY Subject Fatigue Analysis

Date 6-15-76 Job No. 27-77L-100 Calculation Modified Goodman Diagram

6.3 MODIFIED GOODMAN DIAGRAM FOR SIMPLE T, Y AND K JOINTS – NOMINAL BRACE STRESS



A36 Steel

(NOMINAL STRESSES IN BRANCH MEMBERS)

(AWS D1.1-72 Fig.10.7.4 Line D'-D')

CONSTRUCTION PROCEDURES

1. For A36 steel, tensile strength is in the range of 58 ~ 80 ksi (See AISC 5-212, 7th Edition).

   Say f_u = 60 ksi, locate point ① on line R=+1

2. Refer to AWS diagram, the first kink point on line D'-D' occurs at S = 22 ksi, $N = 4\times10^3$.

   Locate point ② (f_{max} = 22 ksi) on line R=0

3. Connect points ① and ② and extend to intersect line R=-1, define point ③.

4. For A36 Steel, allowable tensile stress F_t = 22 ksi per AISC. In this particular diagram, F_t coincides with f_{max} at point ②. Draw a horizontal line through point ② to intersect with line R=+1 at point ④.

5. Line ②-④ defines the allowable design in tension per AISC

6. Calculate allowable compressive stress Fa per AISC specification. Set Fa on abscissa ($-f_{min}$) to obtain point ⑤.

7. Draw a vertical line through point ⑤ to intersect line R=-1 at point ⑥ and line ②-③ at point ⑦.

8. Line ⑥-⑦ defines the allowable design in compression per AISC

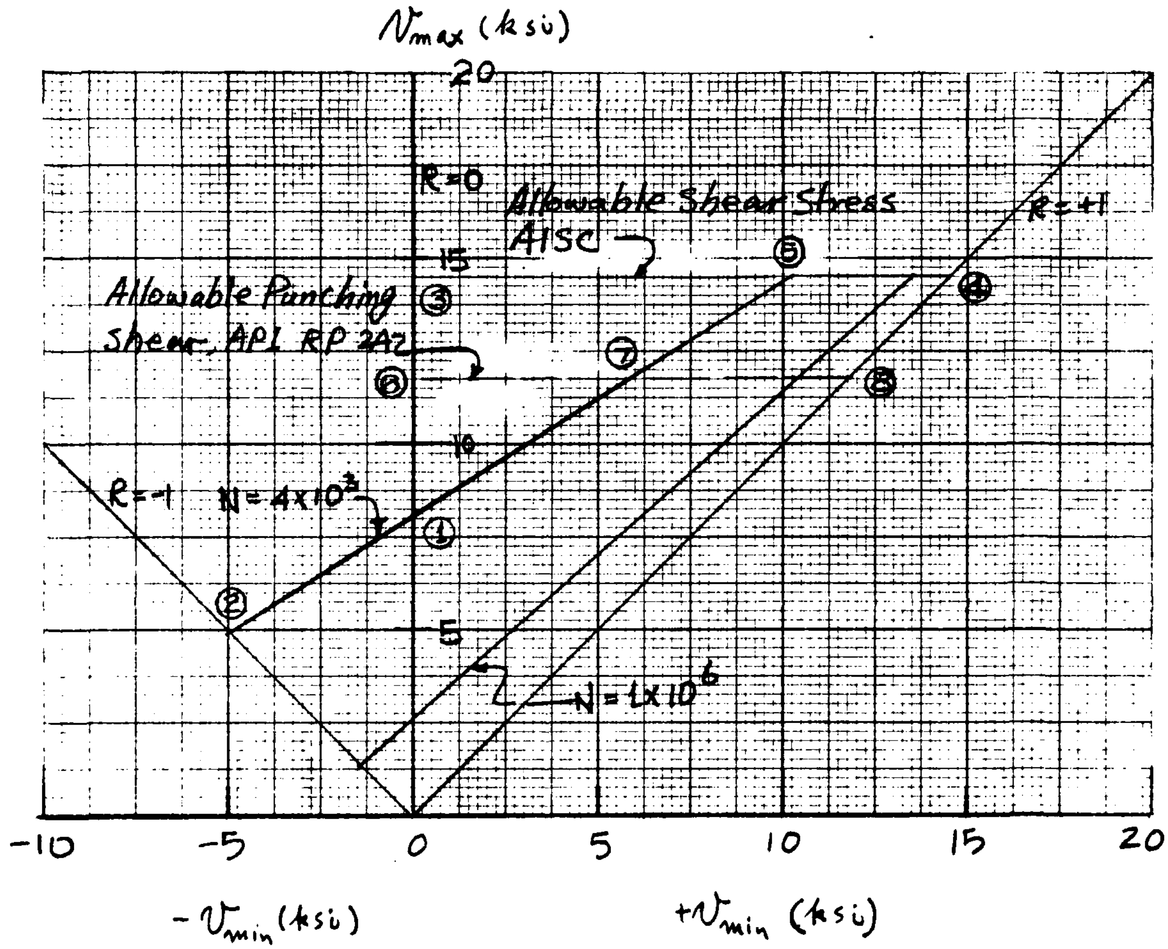
9. Line ⑥—⑦—②—④ defines the boundary of allowable design per AISC & AWS for a branch member in simple K, T and Y joints for life cycle $N = 4\times10^3$

CREST OFFSHORE, INC.

Sheet 6.06 of 10

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 6-16-76 Job No. 27-771-100 Calculation Modified Goodman Diagram

6.4 MODIFIED GOODMAN DIAGRAM FOR SIMPLE K JOINTS – PUNCHING SHEAR STRESS



A36 Steel

(PUNCHING SHEAR STRESS ON MAIN MEMBER)
(FOR R/T RATIO DOES NOT EXCEED 24)

CREST OFFSHORE, INC.

Sheet 6.27 of 10

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 6-16-76 Job No. 22-772-100 Calculation Modified Goodman Diagram

CONSTRUCTION PROCEDURES

1. Refer to AWS diagram, lines k-k and D'-D' are paralleled each other in the life cycle of $N = 4\times10^3$ and $N = 2\times10^6$. $v_{k-k} = \frac{S_{D-D'}}{2.75}$

   where v_{k-k} is the total stress range in line K-K

   $S_{D-D'}$ is the total stress range in line D'-D'

2. At $N = 4\times10^5$, $v_{max} = 8$ ksi, set point ① on line R=0.

3. $-\frac{1}{2}v_{min} = {}_3f_{min}/2.75 = -4.91$ ksi where ${}_3f_{min}$ represents stress at point ③ in §6.3 diagram

4. Set $-\frac{1}{2}v_{min} = -4.91$ ksi on abscissa and draw a vertical line to intersect line R=-1 at pt. ②

5. For A36 steel, allowable shear stress $F_v = 14.5$ ksi per AISC specification. Draw a horizontal line through point ③ ($v_{max} = 14.5$ ksi) to intersect line R=+1 at point ④.

6. Line ③-④ defines the allowable shear stress per AISC

7. Connect points ① and ② and extend to intersect line ③-④ at point ⑤.

8. Calculate V_p per API RP 2A Eq. 23. Set point ⑥ at $v_{max} = V_p$.

9. Draw a horizontal line through point ⑥ to intersect line ②-①-⑤ at point ⑦ and Line R=+1 at point ⑧

10. Line ⑦-⑧ defines the allowable punching shear per API RP 2A

CREST OFFSHORE, INC.

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 6-16-76 Job No. 27-77L-100 Calculation Modified Goodman Diagram

11. Line ②—①—⑦—⑧ defines the boundary of allowable design for shear stress on main member in a simple K-type joint for life cycle $N = 4 \times 10^3$.

12. If the value of v_p per API RP 2A is greater than that of F_v per AISC specification, line ②—①—⑤—④ controls.

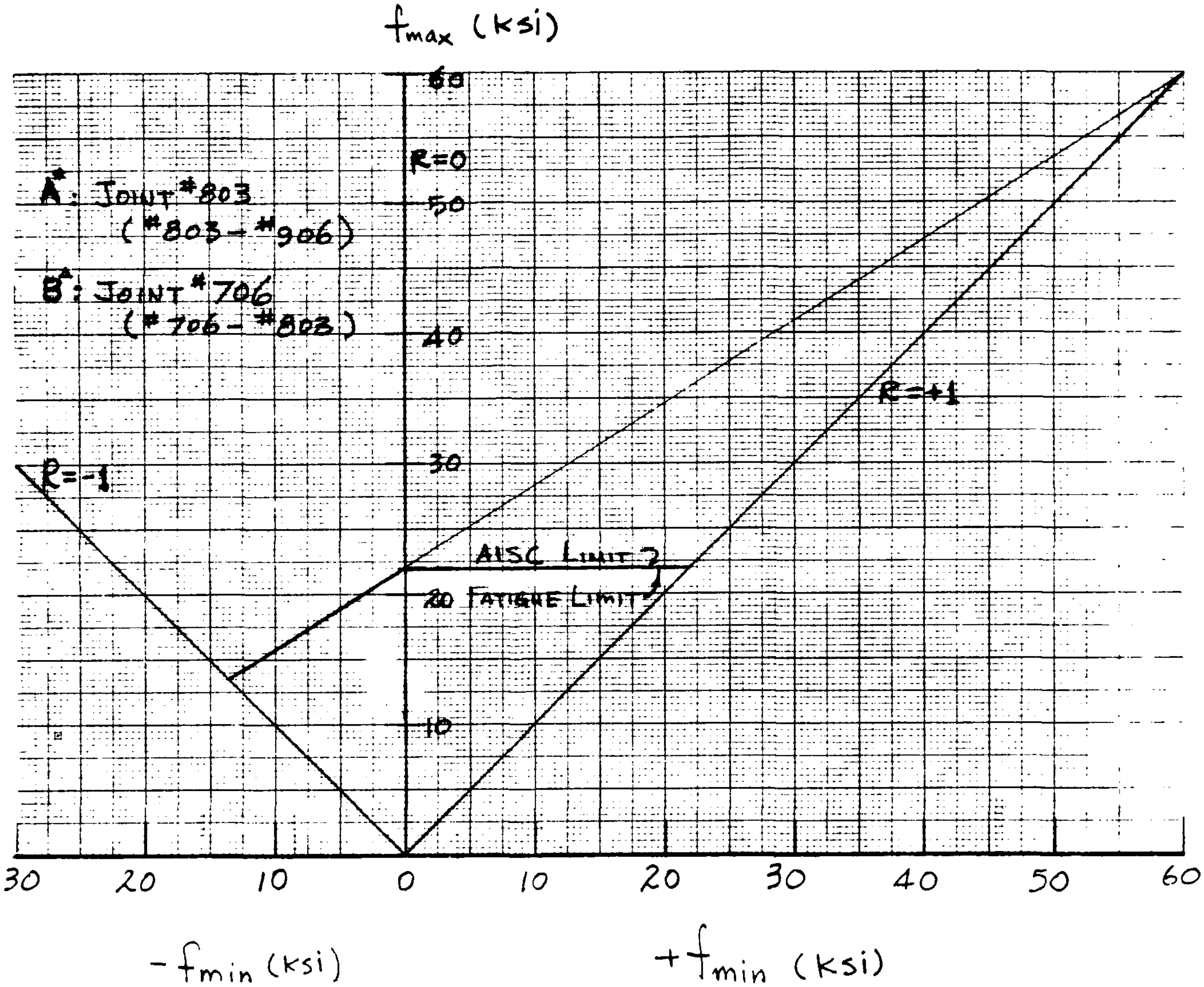
CREST OFFSHORE, INC.

Sheet 6.09 of 10

By C. Chen Client U.S. NAVY Subject Fatigue Analysis

Date 8-5-76 Job No. 27-771-100 Calculation Modified Goodman Diagram

6.5 SAFE NOMINAL BRACE STRESS RANGE FOR FATIGUE



A36 Steel

* See Page 4.15

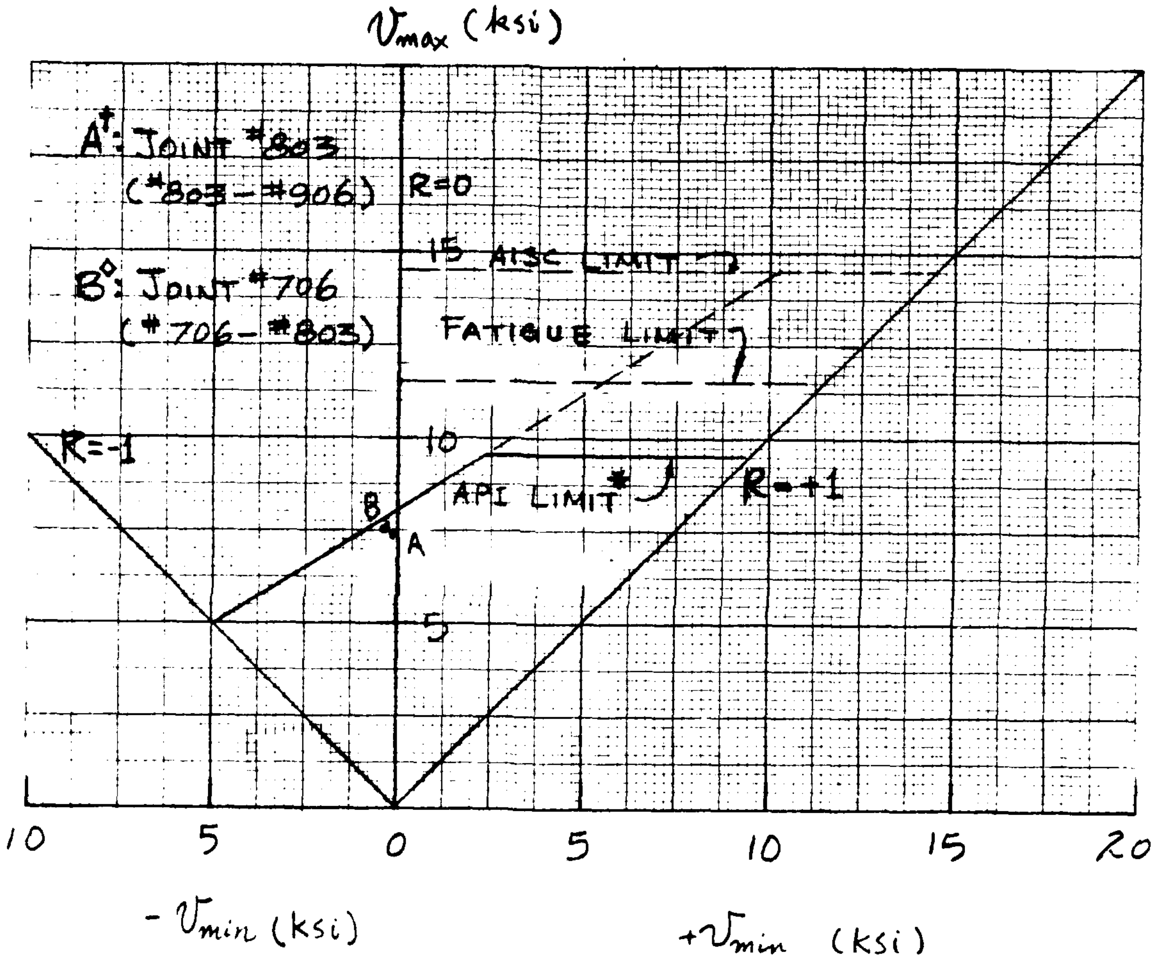
△ See Page 4.18

CREST OFFSHORE, INC.

Sheet 6.10 of 10

By C. Chern Client U.S. NAVY Subject Fatigue Analysis
Date 8-5-76 Job No. 27-771-100 Calculation Modified Goodman Diagram

6.6 SAFE PUNCHING SHEAR STRESS RANGE FOR FATIGUE



* PUNCHING SHEAR LIMIT FOR JOINT #803 (#803-#906)
& JOINT #706 (#706-#803)

† See Page 4.05

◇ See Page 4.08

SECTION 7

REFERENCES

1. American Welding Society

   AWS STRUCTURAL WELDING CODE, AWS D1.1-72

2. Tall, L., etc.

   STRUCTURAL STEEL DESIGN, Chapter 16 Fatigue, The Ronald Press Company, 1964

3. Welding Research Committee of the Engineering Foundation

   CALCULATION AND GRAPHICAL REPRESENTATION OF THE FATIGUE STRENGTH OF STRUCTURAL JOINTS, Committee F Report No. 2, Welding Research Supplement, February 1942

4. Nolte, K. G. and Hansford, J. E.

   CLOSED-FORM EXPRESSIONS FOR DETERMINING THE FATIGUE DAMAGE OF STRUCTURES DUE TO OCEAN WAVES, OTC Paper No. 2606, May 1976

5. Martin, C. A.

   FATIGUE IN CONSTRUCTIONAL STEELS, Part 1 & 2, Machine Design, August 1965

6. Strommen, J. A.

   NEW LOOK AT METAL FATIGUE, Machine Design, July 1974

SECTION 7

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1. American Welding Society

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5. Martin, C. A.

   FATIGUE IN CONSTRUCTIONAL STEELS, Part 1 & 2, Machine Design, August 1965

6. Strommen, J. A.

   NEW LOOK AT METAL FATIGUE, Machine Design, July 1974

APPENDIX A

PUNCHING SHEAR STRESS

6 0 0 0   R E M O T E   B A T C H

PUY2NFED

UNITED COMPUTING 67. APEX/SL 6.8.0

13.56.26.   10/07/76.

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PP        PP  UU        UU  YY        YY  2         22  NNNN      NN  FF            EE
PP        PP  UU        UU  YY        YY            22  NN NN     NN  FF            EE
PP        PP  UU        UU  YY        YY            22  NN  NN    NN  FF            EE
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PP            UU        UU       YY       22            NN        NN  FF            EE
PP            UU        UU       YY       22            NN        NN  FF            EE
PP            UU        UU       YY       22            NN        NN  FF            EE
PP            UUUUUUUUUUUU       YY       222222222222  NN        NN  FF            EEEEEEEEEEEE
PP             UUUUUUUUUU        YY       222222222222  NN        NN  FF            EEEEEEEEEEEE
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SAPCHK - CREST OFFSHORE, INC.   STRUCTURAL POSTPROCESSOR SYSTEM

API CODE CHECK, PUNCHING SHEAR FOR TUBULAR MEMBERS

K-JOINTS FOR FATIGUE 105 FT MLW STRUCTURE   U.S. NAVY   27-771-01

I N P U T   D A T A

MEMBER	JOINT	DIAMETER	THICKNESS	START/END	THETA ANGLE	YIELD
706	806	47.500	1.500	1	-0.00	42
625	706	20.000	1.000	2	46.50	36
704	706	12.750	.500	2	82.00	36
705	706	12.750	.500	2	82.00	36
706	803	20.000	1.000	1	64.40	36
703	803	47.500	1.500	2	-0.00	42
706	803	20.000	1.000	2	48.40	36
802	803	14.000	.500	2	82.00	36
803	805	14.000	.500	1	82.00	36
803	906	20.000	1.000	1	65.90	36

BRACE PROPERTIES TABLE

NUMBER	DIAMETER	THICKNESS	AREA	MODULUS	YIELD
1	2.000000E+01	1.000000E+00	5.969027E+01	2.700984E+02	3.600000E+01
2	1.275000E+01	5.000000E-01	1.924226E+01	5.671276E+01	3.600000E+01
3	1.400000E+01	5.000000E-01	2.120575E+01	6.910801E+01	3.600000E+01

LOAD CASE	LOAD FACTOR
1	1.000
2	1.000
3	1.000
4	1.000
5	1.000
6	1.000
7	1.000
8	1.000

END OF INFORMATION READ - FORCE

80 RECORDS TO BE SORTED

SAPCMR - CREST OFFSHORE, INC.   STRUCTURAL POSTPROCESSOR SYSTEM

PUNCHING SHEAR CHECK FOR - K-JOINTS FOR FATIGUE 105 FT MLW STRUCTURE U.S. NAVY 27-771-01

CHORD NUMBER	JOINT NUMBER		LOAD CASE	BRACE NUMBER		DIAMETER	THICKNESS	/- -S T R E S S - -/ AXIAL	BENDING	CALCULATED PUNCHING SHEAR	ALLOWABLE PUNCHING SHEAR
706	806	706	1			47,50	1,500	,136	,018		
				625	706	20,00	1,000	,069	,135	,084	6,903
				704	706	12,75	,500	,045	,076	,038	6,903
				705	706	12,75	,500	,178	,053	,074	6,903
				706	803	20,00	1,000	,169	,123	,175	6,903
706	806	706	2			47,50	1,500	,099	,015		
				625	706	20,00	1,000	,046	,091	,057	6,903
				704	706	12,75	,500	,029	,278	,097	6,903
				705	706	12,75	,500	,122	,109	,074	6,903
				706	803	20,00	1,000	,137	,044	,101	6,903
706	806	706	3			47,50	1,500	,393	,046		
				625	706	20,00	1,000	,249	,435	,282	6,903
				704	706	12,75	,500	,124	,388	,162	6,903
				705	706	12,75	,500	,476	,228	,225	6,903
				706	803	20,00	1,000	,545	,414	,538	6,903
706	806	706	4			47,50	1,500	,238	,044		
				625	706	20,00	1,000	,092	,232	,135	6,903
				704	706	12,75	,500	,051	1,159	,383	6,903
				705	706	12,75	,500	,234	,941	,373	6,903
				706	803	20,00	1,000	,281	,077	,200	6,903
706	806	706	5			47,50	1,500	,874	,108		
				625	706	20,00	1,000	,811	,591	,568	6,903
				704	706	12,75	,500	,294	,275	,181	6,903
				705	706	12,75	,500	,902	,684	,506	6,903
				706	803	20,00	1,000	1,302	,739	1,142	6,903
706	806	706	6			47,50	1,500	,340	,067		
				625	706	20,00	1,000	,114	,338	,188	6,903
				704	706	12,75	,500	,073	1,736	,573	6,903
				705	706	12,75	,500	,288	1,691	,628	6,903
				706	803	20,00	1,000	,377	,108	,270	6,903
706	806	706	7			47,50	1,500	2,097	,266		
				625	706	20,00	1,000	2,388	,656	1,298	6,903
				704	706	12,75	,500	,721	,654	[illegible]	6,903
				705	706	12,75	,500	1,644	1,654	[illegible]	6,903
				706	803	20,00	1,000	3,144	1,510	[illegible]	6,903

SAPCHK - CHES[illegible] OFFSHORE, INC.   STRUCTURAL POSTPROCESSOR SYSTEM

PUNCHING SHEAR CHECK FOR - K-JOINTS FOR FATIGUE 105 FT MLW STRUCTURE U.S. NAVY 27-771-01

CHORD NUMBER	JOINT NUMBER		LOAD CASE	BRACE NUMBER		DIAMETER	THICKNESS	/- -S T R E S S - -/ AXIAL	BENDING	CALCULATED PUNCHING SHEAR	ALLOWABLE PUNCHING SHEAR
706	806	706	8			47.50	1.500	.431	.097		
				625	706	20.00	1.000	.133	.406	.224	6.903
				704	706	12.75	.500	.086	2.916	.950	6.903
				705	706	12.75	.500	.312	2.616	.928	6.903
				706	803	20.00	1.000	.447	.176	.348	6.903
703	803	803	1			47.50	1.500	.146	.010		
				706	803	20.00	1.000	.187	.052	.100	6.903
				802	803	14.00	.500	.031	[illegible]	.025	6.903
				803	805	14.00	.500	.119	.114	.074	6.903
				803	906	20.00	1.000	.240	.056	.167	6.903
703	803	803	[illegible]			47.50	1.500	.108	.015		
				706	803	20.00	1.000	.135	.026	.067	6.903
				802	803	14.00	.500	.020	.053	.023	6.903
				803	805	14.00	.500	.078	.067	.046	6.903
				803	906	20.00	1.000	.176	.039	.121	6.903
703	803	803	3			47.50	1.500	[illegible]	.025		
				706	803	20.00	1.000	.546	.219	.320	6.903
				802	803	14.00	.500	.078	.042	.039	6.903
				803	805	14.00	.500	.303	.259	.179	6.903
				803	906	20.00	1.000	.665	.285	.538	6.903
703	803	803	4			47.50	1.500	.259	.050		
				706	803	20.00	1.000	.281	.037	.132	6.903
				802	803	14.00	.500	.059	.238	.094	6.903
				803	805	14.00	.500	.202	.529	.232	6.903
				803	906	20.00	1.000	.395	.233	.356	6.903
703	803	803	5			47.50	1.500	.932	.040		
				706	803	20.00	1.000	1.303	.324	.677	6.903
				802	803	14.00	.500	.147	.250	.126	6.903
				803	805	14.00	.500	.581	.430	.323	6.903
				803	906	20.00	1.000	1.436	.582	1.144	6.903
703	803	803	6			47.50	1.500	.379	.073		
				706	803	20.00	1.000	.377	.072	.186	6.903
				802	803	14.00	.500	.071	.656	.231	6.903
				803	805	14.00	.500	.326	.710	.329	6.903
				803	906	20.00	1.000	.552	.428	.557	6.903

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PUNCHING SHEAR CHECK FOR - K-JOINTS FOR FATIGUE 105 FT MLW STRUCTURE U.S. NAVY 27-771-01

CHORD NUMBER	JOINT NUMBER	LOAD CASE	BRACE NUMBER		DIAMETER	THICKNESS	/- -S T R E S S - -/ AXIAL	BENDING	CALCULATED PUNCHING SHEAR	ALLOWABLE PUNCHING SHEAR
703	803 803	7			47.50	1.500	2.255	.088		
			706	803	20.00	1.000	3.146	.611	1.558	6.903
			802	803	14.00	.500	.352	.500	.208	6.903
			803	805	14.00	.500	1.342	1.222	.818	6.903
			803	906	20.00	1.000	3.374	1.369	2.687	6.903
703	803 803	8			47.50	1.500	.490	.110		
			706	803	20.00	1.000	.448	.089	.223	6.903
			802	803	14.00	.500	.103	1.116	.386	6.903
			803	805	14.00	.500	.439	1.293	.550	6.903
			803	906	20.00	1.000	.687	.599	.731	6.903

END OF JOINT CHECK

END OF RUN - SAPCHK

6 0 0 0 K E M U T E M A T C H

PUY2UECD

UNITED COMPUTING 67, APEX/SL B.6.0

15.23.59, 10/07/76,

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PP            UU        UU    YYY  YYY       2222222     OU    O    OU  EEEEEEEE   CC
PP            UU        UU      YYYY        22           OU    O    OU  EE         CC
PP            UU        UU       YY        22            OU   O     OU  EE         CC
PP            UU        UU       YY       22             OU  O      OU  EE         CC
PP            UU        UU       YY       22             OU O       OU  EE         CC
PP            UU        UU       YY       22             OUU       OU   EE         CC          CC
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PP              UUUUUUUUUU       YY       222222222222   O  OUUUUO     EEEEEEEEEEEE   CCCCCCCCCC
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SAPCHK - CREST OFFSHORE, INC. STRUCTURAL POSTPROCESSOR SYSTEM

API CODE CHECK, PUNCHING SHEAR FOR TUBULAR MEMBERS

T-JOINTS FOR FATIGUE 105 FT MLW STRUCTURE U.S. NAVY 27-771-01

I N P U T D A T A

MEMBER	JOINT	DIAMETER	THICKNESS	START/END	THETA ANGLE	YIELD
901	1001	47.750	1.620	2	-0.00	42
1001	1004	20.000	.625	1	82.00	36
1001	1002	20.000	.625	1	82.00	36
903	1003	47.750	1.620	2	-0.00	42
1003	1005	20.000	.625	1	82.00	36
1002	1003	20.000	.625	2	82.00	36
906	1006	47.750	1.620	2	-0.00	42
1004	1006	20.000	.625	2	82.00	36
1005	1006	20.000	.625	2	82.00	36

BRACE PROPERTIES TABLE

NUMBER	DIAMETER	THICKNESS	AREA	MODULUS	YIELD
1	2.000000E+01	6.250000E-01	3.804273E+01	1.786967E+02	3.600000E+01

LOAD CASE	LOAD FACTOR
10	1.330
11	1.330
12	1.330
13	1.330
14	1.330
15	1.330
16	1.330
17	1.330

END OF INFORMATION READ - FORCE

72 RECORDS TO BE SORTED

JAPCHK - CREST OFFSHORE, INC.   STRUCTURAL POSTPROCESSOR SYSTEM

PUNCHING SHEAR CHECK FOR - T-JOINTS FOR FATIGUE 105 FT MLW STRUCTURE U.S. NAVY 27-771-01

CHORD NUMBER	JOINT NUMBER	LOAD CASE	BRACE NUMBER	DIAMETER	THICKNESS	/- -S T R E S S - -/ AXIAL	BENDING	CALCULATED PUNCHING SHEAR	ALLOWABLE PUNCHING SHEAR
901	1001 1001	10		47.75	1.620	.011	.156		
			1001 1004	20.00	.625	6.460	3.104	4.285	9.671
			1001 1002	20.00	.625	8.821	2.036	4.322	9.671
901	1001 1001	11		47.75	1.620	.122	.233		
			1001 1004	20.00	.625	9.601	4.359	5.169	9.671
			1001 1002	20.00	.625	4.714	.483	1.931	9.671
901	1001 1001	12		47.75	1.620	.011	.153		
			1001 1004	20.00	.625	8.322	2.965	4.183	9.671
			1001 1002	20.00	.625	8.809	2.988	4.373	9.671
901	1001 1001	13		47.75	1.620	.116	.207		
			1001 1004	20.00	.625	8.728	4.204	4.787	9.671
			1001 1002	20.00	.625	4.277	.579	1.804	9.671
901	1001 1001	14		47.75	1.620	.000	.018		
			1001 1004	20.00	.625	.028	.143	.063	9.671
			1001 1002	20.00	.625	.117	.203	.118	9.671
901	1001 1001	15		47.75	1.620	.003	.014		
			1001 1004	20.00	.625	.099	.221	.118	9.671
			1001 1002	20.00	.625	.055	.076	.048	9.671
901	1001 1001	16		47.75	1.620	.001	.016		
			1001 1004	20.00	.625	.156	.176	.123	9.671
			1001 1002	20.00	.625	.041	.141	.067	9.671
901	1001 1001	17		47.75	1.620	.004	.023		
			1001 1004	20.00	.625	.183	.357	.199	9.671
			1001 1002	20.00	.625	.036	.100	.050	9.671
903	1003 1003	10		47.75	1.620	.240	.301		
			1003 1005	20.00	.625	9.452	4.802	5.276	9.671
			1002 1003	20.00	.625	.154	1.672	.670	9.671
903	1003 1003	11		47.75	1.620	.145	.213		
			1003 1005	20.00	.625	10.597	4.562	5.614	9.671
			1002 1003	20.00	.625	4.779	.930	2.119	9.671

10, 11, 12, 13 - Crest of wave

14, 15, 16, 17 - Trough of wave

SAPCHK - CREST OFFSHORE, INC.   STRUCTURAL POSTPROCESSOR SYSTEM

PUNCHING SHEAR CHECK FOR - T-JOINTS FOR FATIGUE 105 FT MLW STRUCTURE U.S. NAVY 27-771-01

CHORD NUMBER	JOINT NUMBER	LOAD CASE	BRACE NUMBER	DIAMETER	THICKNESS	/- -S T R E S S - -/ AXIAL	BENDING	CALCULATED PUNCHING SHEAR	ALLOWABLE PUNCHING SHEAR
903	1003 1003	12		47.75	1.620	.229	.298		
			1003 1005	20.00	.625	8.752	4.862	5.037	9.671
			1002 1003	20.00	.625	.144	1.693	.674	9.671
903	1003 1003	13		47.75	1.620	.136	.188		
			1003 1005	20.00	.625	9.787	4.384	5.248	9.671
			1002 1003	20.00	.625	4.518	.974	2.038	9.671
903	1003 1003	14		47.75	1.620	.006	.015		
			1003 1005	20.00	.625	.110	.245	.131	9.671
			1002 1003	20.00	.625	.032	.108	.051	9.671
903	1003 1003	15		47.75	1.620	.003	.013		
			1003 1005	20.00	.625	.076	.209	.105	9.671
			1002 1003	20.00	.625	.068	.081	.055	9.671
903	1003 1003	16		47.75	1.620	.007	.033		
			1003 1005	20.00	.625	.159	.495	.241	9.671
			1002 1003	20.00	.625	.111	.271	.141	9.671
903	1003 1003	17		47.75	1.620	.004	.024		
			1003 1005	20.00	.625	.166	.380	.201	9.671
			1002 1003	20.00	.625	.047	.121	.062	9.671
906	1006 1006	10		47.75	1.620	.218	.312		
			1004 1006	20.00	.625	1.273	2.015	1.212	9.671
			1005 1006	20.00	.625	7.159	4.500	4.312	9.671
906	1006 1006	11		47.75	1.620	.260	.351		
			1004 1006	20.00	.625	5.632	3.957	3.545	9.671
			1005 1006	20.00	.625	4.482	3.566	2.974	9.671
906	1006 1006	12		47.75	1.620	.228	.317		
			1004 1006	20.00	.625	1.248	2.009	1.201	9.671
			1005 1006	20.00	.625	7.838	4.444	4.545	9.671
906	1006 1006	13		47.75	1.620	.264	.330		
			1004 1006	20.00	.625	5.871	3.692	3.537	9.671
			1005 1006	20.00	.625	4.663	3.285	2.939	9.671
906	1006 1006	14		47.75	1.620	.006	.030		
			1004 1006	20.00	.625	.098	.286	.141	9.671
			1005 1006	20.00	.625	.146	.437	.214	9.671

SAPCHK - CREST OFFSHORE, INC.   STRUCTURAL POSTPROCESSOR SYSTEM

PUNCHING SHEAR CHECK FOR - T-JOINTS FOR FATIGUE 105 FT MLW STRUCTURE U.S. NAVY 27-771-01

CHORD NUMBER	JOINT NUMBER	LOAD CASE	BRACE NUMBER	DIAMETER	THICKNESS	/- -S T R E S S - -/ AXIAL	BENDING	CALCULATED PUNCHING SHEAR	ALLOWABLE PUNCHING SHEAR
906 1006	1006	15		47.75	1.620	.007	.035		
			1004 1006	20.00	.625	.121	.422	.199	9.671
			1005 1006	20.00	.625	.132	.401	.196	9.671
906 1006	1006	16		47.75	1.620	.007	.014		
			1004 1006	20.00	.625	.028	.123	.056	9.671
			1005 1006	20.00	.625	.165	.231	.146	9.671
906 1006	1006	17		47.75	1.620	.008	.016		
			1004 1006	20.00	.625	.113	.195	.113	9.671
			1005 1006	20.00	.625	.131	.200	.122	9.671

END OF JOINT CHECK

END OF RUN - SAPCHK

6 0 0 0 R E M O T E B A T C H

PUY2UFUB   *UNITED COMPUTING* 67, APEX/SL 8.8.0

15.24.31.   10/07/76.

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PP            UU          UU        YY        22             00 0      00  FF            UU          UU
PP            UU          UU        YY        22             000      00   FF            UU          UU
PP             UUUUUUUUUUUU         YY        222222222222    0000000000   FF             UUUUUUUUUUUU
PP              UUUUUUUUUU          YY        222222222222   0  000000     FF              UUUUUUUUUU
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SAPCHK - CREST OFFSHORE, INC.   STRUCTURAL POSTPROCESSOR SYSTEM

API CODE CHECK, PUNCHING SHEAR FOR TUBULAR MEMBERS

T-JOINTS FOR FATIGUE   93 FT MLW STRUCTURE   U.S. NAVY   27-771-01

I N P U T   D A T A

MEMBER	JOINT	DIAMETER	THICKNESS	START/END	THETA ANGLE	YIELD
901	1001	47.500	1.500	2	-0.00	42
1001	1002	20.000	.625	1	81.82	36
1001	1004	20.000	.625	1	81.82	36
903	1003	47.500	1.500	2	-0.00	42
1002	1003	20.000	.625	2	81.82	36
1003	1005	20.000	.625	1	81.82	36
906	1006	47.500	1.500	2	-0.00	42
1004	1006	20.000	.625	2	81.81	36
1005	1006	20.000	.625	2	81.81	36

BRACE PROPERTIES TABLE

NUMBER	DIAMETER	THICKNESS	AREA	MODULUS	YIELD
1	2.000000E+01	6.250000E-01	3.804273E+01	1.786967E+02	3.600000E+01

LOAD CASE	LOAD FACTOR
6	1.330
7	1.330
8	1.330
9	1.330

END OF INFORMATION READ - FORCE

36 RECORDS TO BE SORTED

APCHK - CREST OFFSHORE, INC. STRUCTURAL POSTPROCESSOR SYSTEM

PUNCHING SHEAR CHECK FOR - T-JOINTS FOR FATIGUE 93 FT MLW STRUCTURE U.S. NAVY 27-771-01

CHORD NUMBER	JOINT NUMBER	LOAD CASE	BRACE NUMBER	DIAMETER	THICKNESS	/- -S T R E S S - -/ AXIAL	BENDING	CALCULATED PUNCHING SHEAR	ALLOWABLE PUNCHING SHEAR
901	1001 1001	6		47.50	1.500	.014	.221		
			1001 1002	20.00	.625	8.752	2.966	4.686	9.181
			1001 1004	20.00	.625	8.288	3.140	4.568	9.181
901	1001 1001	7		47.50	1.500	.124	.259		
			1001 1002	20.00	.625	4.521	1.517	2.415	9.181
			1001 1004	20.00	.625	9.372	3.752	5.245	9.181
901	1001 1001	8		47.50	1.500	.012	.212		
			1001 1002	20.00	.625	8.483	2.998	4.590	9.181
			1001 1004	20.00	.625	7.981	3.067	4.416	9.181
901	1001 1001	9		47.50	1.500	.124	.247		
			1001 1002	20.00	.625	4.107	1.499	2.241	9.181
			1001 1004	20.00	.625	8.801	3.720	5.003	9.181
903	1003 1003	6		47.50	1.500	.251	.299		
			1002 1003	20.00	.625	.209	1.732	.768	9.181
			1003 1005	20.00	.625	9.514	3.782	5.314	9.181
903	1003 1003	7		47.50	1.500	.158	.247		
			1002 1003	20.00	.625	4.622	1.968	2.633	9.181
			1003 1005	20.00	.625	10.744	4.021	5.902	9.181
903	1003 1003	8		47.50	1.500	.232	.290		
			1002 1003	20.00	.625	.001	1.599	.632	9.181
			1003 1005	20.00	.625	8.800	3.806	5.037	9.181
903	1003 1003	9		47.50	1.500	.150	.237		
			1002 1003	20.00	.625	4.606	1.925	2.610	9.181
			1003 1005	20.00	.625	10.277	3.972	5.695	9.181
906	1006 1006	6		47.50	1.500	.225	.308		
			1004 1006	20.00	.625	1.771	1.733	1.395	9.181
			1005 1006	20.00	.625	6.842	3.523	4.139	9.181
906	1006 1006	7		47.50	1.500	.266	.341		
			1004 1006	20.00	.625	5.903	2.946	3.534	9.181
			1005 1006	20.00	.625	4.260	2.634	2.759	9.181

SAPCHK - CREST OFFSHORE, INC.   STRUCTURAL POSTPROCESSOR SYSTEM

PUNCHING SHEAR CHECK FOR - T-JOINTS FOR FATIGUE   93 FT MLW STRUCTURE   U.S. NAVY   27-771-01

CHORD NUMBER	JOINT NUMBER	LOAD CASE	BRACE NUMBER		DIAMETER	THICKNESS	/- -S T R E S S - -/ AXIAL	BENDING	CALCULATED PUNCHING SHEAR	ALLOWABLE PUNCHING SHEAR
906	1006	1006	8		47.50	1.500	.230	.303		
			1004	1006	20.00	.625	1.674	1.679	1.335	9.181
			1005	1006	20.00	.625	7.303	3.328	4.247	9.181
906	1006	1006	9		47.50	1.500	.262	.336		
			1004	1006	20.00	.625	6.391	2.028	3.683	9.181
			1005	1006	20.00	.625	4.605	2.507	2.839	9.181

END OF JOINT CHECK

END OF RUN - SAPCHK

6 0 0 0 R E M O T E B A T C H

PUY2NUEB

UNITED COMPUTING 67. APEX/8L 8.8.0

14,36.18. 10/07/76.

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JJPCHK - CREST OFFSHORE, INC.   STRUCTURAL POSTPROCESSOR SYSTEM

API_CODE_CHECK, PUNCHING SHEAR FOR TUBULAR MEMBERS

T-JOINTS FOR FATIGUE   81 FT MLW STRUCTURE   U.S. NAVY   27-771-01

I N P U T   D A T A

MEMBER	JOINT	DIAMETER	THICKNESS	START/END	THETA ANGLE	YIELD
801	1001	47.500	1.500	2	-0.00	42
1001	1002	18.000	.500	1	81.82	36
1001	1004	18.000	.500	1	81.82	36
803	1003	47.500	1.500	2	-0.00	42
1002	1003	18.000	.500	2	81.82	36
1003	1005	18.000	.500	1	81.82	36
806	1006	47.500	1.500	2	-0.00	42
1004	1006	18.000	.500	2	81.82	36
1005	1006	18.000	.500	2	81.82	36

BRACE PROPERTIES TABLE

NUMBER	DIAMETER	THICKNESS	AREA	MODULUS	YIELD
1	1.800000E+01	5.000000E-01	2.748894E+01	1.170188E+02	3.600000E+01

LOAD CASE	LOAD FACTOR
7	1.330
8	1.330
9	1.330
10	1.330

END OF INFORMATION READ - FORCE

36 RECORDS TO BE SORTED

SACMK - CREST OFFSHORE, INC.   STRUCTURAL POSTPROCESSOR SYSTEM

PUNCHING SHEAR CHECK FOR - T-JOINTS FOR FATIGUE   81 FT MLW STRUCTURE   U.S. NAVY   27-771-01

CHORD NUMBER	JOINT NUMBER	LOAD CASE	BRACE NUMBER	DIAMETER	THICKNESS	/- -S T R E S S - -/ AXIAL	BENDING	CALCULATED PUNCHING SHEAR	ALLOWABLE PUNCHING SHEAR
801 1001	1001	7		47.50	1.500	.089	.118		
			1001 1002	18.00	.500	5.171	1.507	2.137	9.181
			1001 1004	18.00	.500	9.709	3.922	4.358	9.181
801 1001	1001	8		47.50	1.500	.070	.104		
			1001 1002	18.00	.500	5.254	1.560	2.181	9.181
			1001 1004	18.00	.500	8.561	3.[illegible]02	3.951	9.181
801 1001	1001	9		47.50	1.500	.019	.077		
			1001 1002	18.00	.500	7.910	2.779	3.419	9.181
			1001 1004	18.00	.500	9.035	2.813	3.791	9.181
801 1001	1001	10		47.50	1.500	.006	.078		
			1001 1002	18.00	.500	8.373	2.678	3.599	9.181
			1001 1004	18.00	.500	8.597	2.728	3.623	9.181
803 1003	1003	7		47.50	1.500	.075	.141		
			1002 1003	18.00	.500	4.895	1.363	2.003	9.181
			1003 1005	18.00	.500	8.650	3.986	4.038	9.181
803 1003	1003	8		47.50	1.500	.054	.123		
			1002 1003	18.00	.500	5.198	1.340	2.093	9.181
			1003 1005	18.00	.500	7.665	3.633	3.673	9.181
803 1003	1003	9		47.50	1.500	.134	.192		
			1002 1003	18.00	.500	.070	1.641	.604	9.181
			1003 1005	18.00	.500	6.623	3.728	3.306	9.181
803 1003	1003	10		47.50	1.500	.118	.198		
			1002 1003	18.00	.500	.261	1.629	.662	9.181
			1003 1005	18.00	.500	5.873	3.892	3.116	9.181
806 1006	1006	7		47.50	1.500	.141	.224		
			1004 1006	18.00	.500	2.806	3.070	1.872	9.181
			1005 1006	18.00	.500	3.905	3.308	2.300	9.181
806 1006	1006	8		47.50	1.500	.146	.191		
			1004 1006	18.00	.500	3.166	2.581	1.833	9.181
			1005 1006	18.00	.500	4.138	2.760	2.202	9.181

SAPCHK - CHEST OFFSHORE, INC.   STRUCTURAL POSTPROCESSOR SYSTEM

PUNCHING SHEAR CHECK FOR - T-JOINTS FOR FATIGUE   81 FT MLW STRUCTURE   U.S. NAVY   27-771-01

CHORD NUMBER	JOINT NUMBER	LOAD CASE	BRACE NUMBER	DIAMETER	THICKNESS	/- -S T R E S S - -/ AXIAL	BENDING	CALCULATED PUNCHING SHEAR	ALLOWABLE PUNCHING SHEAR
806	1006 1006	9		47.50	1.500	.124	.190		
			1004 1006	18.00	.500	.670	2.164	.899	9.181
			1005 1006	18.00	.500	6.580	4.266	3.462	9.181
806	1006 1006	10		47.50	1.500	.138	.179		
			1004 1006	18.00	.500	.359	2.213	.815	9.181
			1005 1006	18.00	.500	7.268	4.044	3.613	9.181

END OF JOINT CHECK

END OF RUN - SAPCHK

APPENDIX B

STRESS ANALYSIS

6 0 0 0 R E M O T E B A T C H

PUYORCDB

UNITED COMPUTING 67. APEX/SL B.8.0

08.04.47.   10/06/76.

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PP        PP  UU        UU  YY        YY  OO        OO   RR        RR  CC        CC  DD        DD
PP        PP  UU        UU  YY        YY  OO        OO   RR        RR  CC            DD        DD
PP        PP  UU        UU  YY        YY  OO        OO   RR        RR  CC            DD        DD
PP        PP  UU        UU  YY        YY  OO        OO   RR        RR  CC            DD        DD
PPPPPPPPPPPP  UU        UU  YYY      YYY  OO        OO   RR        RR  CC            DD        DD
PPPPPPPPPPP   UU        UU   YYY    YYY   OO        OO   RRRRRRRRRRRR  CC            DD        DD
PP            UU        UU    YYY  YYY    OO        OO   RRRRRRRRRRR   CC            DD        DD
PP            UU        UU      YYYY      OO        OO   RR   RR       CC            DD        DD
PP            UU        UU       YY       OO        OO   RR    RR      CC            DD        DD
PP            UU        UU       YY       OO        OO   RR     RR     CC            DD        DD
PP            UU        UU       YY       OO        OO   RR      RR    CC            DD        DD
PP            UU        UU       YY       OO        OO   RR       RR   CC        CC  DD        DD
PP            UUUUUUUUUUUU       YY        OO      OO    RR        RR  CCCCCCCCCCCC  DDDDDDDDDDD
PP             UUUUUUUUUU        YY         OOOOOOOO     RR        RR   CCCCCCCCCC   DDDDDDDDDD
```

SYNERCOM TECHNOLOGY USER BULLETIN

STRAN BULLETIN #5

*** ENDLOAD ***

THE METHOD FOR CALCULATING THE MOMENTS, SHEARS, AND AXIAL FORCES AT THE EXTREME ENDS OF A MEMBER HAS BEEN MODIFIED TO CORRECTLY INCLUDE CONCENTRATED LOADS OR MOMENTS APPLIED AT THE ENDS OF THE MEMBER. THIS TECHNIQUE IS BELIEVED TO GIVE THE TRUE EVALUATION OF THE ACTIONS AT THE ENDS OF A MEMBER DUE TO JOINT LOADS APPLIED AS MEMBER END LOADS. THEREFORE, FOR ANY MEMBER HAVING END LOADS--

1. ALL MEMBER STRESS REPORTS MAY BE EFFECTED.
2. SHEAR STRESSES WILL CHANGE WHERE CONCENTRATED LOADS ARE APPLIED AT THE MEMBER END.
3. BENDING OR TORSIONAL STRESSES WILL CHANGE WHERE MOMENT LOADS ARE APPLIED AT THE MEMBER END.
4. STRESSES OTHER THAN AT THE END WHERE THE LOAD IS APPLIED WILL NOT CHANGE.
5. MEMBERS WITHOUT END LOADS WILL NOT CHANGE.
6. THE MEMBER FORCES AND MOMENTS REPORT DOES NOT CHANGE.

HAVE YOU READ BULLETIN NO.4 REGARDING THE NEW ALLOWABLE STRESS AND UNITY CHECK FEATURES.

NOTE - IF YOU DO NOT HAVE ALL OF THE BULLETINS, YOU MAY OBTAIN A COPY BY SUBMITTING A RUN WITH THE FOLLOWING CONTROL CARDS:

```
GET,MARCBUL.
COPYSBF,MARCBUL.
```

```
*****************************************
*                                       *
*                STRAN                  *
* A SYNERCOM TECHNOLOGY, INC. DEVELOPMENT *
*          RELEASE 6  MOD 15            *
*            AUGUST 1976                *
*                                       *
*****************************************

                                                                        DATE    10/05/76
U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET
              LOAD CN  1 =  7 FT WAVE - CREST
              LOAD CN  2 =  7 FT WAVE - TROUGH
              LOAD CN  3 = 17 FT WAVE - CREST
              LOAD CN  4 = 17 FT WAVE - TROUGH
              LOAD CN  5 = 27 FT WAVE - CREST
              LOAD CN  6 = 27 FT WAVE - TROUGH
              LOAD CN  7 = 42 FT WAVE - CREST
              LOAD CN  8 = 42 FT WAVE - TROUGH

                  ***PROGRAM OPTIONS***

THE FOLLOWING OPTIONS HAVE BEEN REQUESTED FOR THIS ANALYSIS

INPUT
     ....CARD PLUS DATA FILE INPUT

INPUT UNITS
     ....ENGLISH

OUTPUT UNITS
     ....ENGLISH

EXECUTION
     ...UNITY CHECK
       ..UNITY CHECKS COMPUTED BY AMERICAN PETROLEUM
         INSTITUTE REPORT API-RP-2A, JAN 75, SECTIONS
         2.18, 2.19.  RESULTS INVALID FOR A514 STEEL.
     ....NO. OF SEGMENTS              4
     ....VARBL -EMS, SEGMENTS/SECT 1

LOAD
     ....NO. BASIC LOAD CONDS.        8

REPORT
     ....INPUT ECHO AND GROUP PROP          PRINT
     ....JOINT DEFLECTIONS                  PRINT
     ....GROUP AND UN CHK SUMMARY           PRINT
     ....MEMBER STRESS REPORT NO.  1        PRINT
     ....MEMBER STRESS REPORT NO.  2        PRINT
     ....MEMBER STRESS REPORT NO.  3        PRINT
     ....MEMBER DETAIL REPORT               PRINT
     ....REACTION FORCES AND MOMTS          PRINT
     ....EQUILIBRIUM CHECK                  PRINT

EQUILIBRIUM CHECK EDIT VALUES
     ....FORCES      50.00 LB
     ....MOMENTS    100.00 IN-LB
```

S T R A N - G R O U P P R O P E R T I E S R E P O R T

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

TUBULAR MEMBER PROPERTIES

*** E = 29000000.0 PSI, G = 11600000.0 PSI ***

GRP	M/S	JOINT THICK FT.	WT IN.	OD IN.	AX IN2	IX IN4	IY IN4	IZ IN4	FY KSI	KY	KZ	SHEAR AREA IN2	INPUT SEC LEN FT.
086	1	-0.00	.500	8.62	12.75	211.04	105.52	105.52	36.0	1.0	1.0	6.38	-0.00
105	1	-0.00	.365	10.75	11.91	321.47	160.73	160.73	36.0	1.0	1.0	5.95	-0.00
106	1	-0.00	.844	10.75	26.27	649.04	324.52	324.52	36.0	1.0	1.0	13.13	-0.00
107	1	-0.00	.365	10.75	11.91	321.47	160.73	160.73	36.0	1.0	1.0	5.95	-0.00
108	1	-0.00	.365	10.75	11.91	321.47	160.73	160.73	36.0	1.0	1.0	5.95	-0.00
109	1	-0.00	.365	10.75	11.91	321.47	160.73	160.73	36.0	1.0	1.0	5.95	-0.00
120	1	-0.00	.500	12.75	19.24	723.09	361.54	361.54	36.0	.8	.8	9.62	-0.00
125	1	-0.00	.500	12.75	19.24	723.09	361.54	361.54	36.0	.8	.8	9.62	-0.00
123	1	-0.00	.500	12.75	19.24	723.09	361.54	361.54	36.0	.8	.8	9.62	-0.00
137	1	-0.00	.500	12.75	19.24	723.09	361.54	361.54	36.0	1.6	.8	9.62	-0.00
140	1	-0.00	.375	14.00	16.05	745.52	372.76	372.76	36.0	.8	.8	8.03	-0.00
148	1	-0.00	.500	14.00	21.21	967.51	483.76	483.76	36.0	1.6	.8	10.60	-0.00
140	1	-0.00	.375	14.00	16.05	745.52	372.76	372.76	36.0	.8	.8	8.03	-0.00
165	1	-0.00	.625	16.00	30.19	1787.03	893.52	893.52	36.0	1.6	.8	15.09	-0.00
169	1	-0.00	.500	16.00	24.35	1463.88	731.94	731.94	36.0	1.6	.8	12.17	-0.00
180	1	-0.00	.500	18.00	27.49	2106.34	1053.17	1053.17	36.0	.8	.8	13.74	-0.00
200	1	-0.00	.625	20.00	38.04	3573.94	1786.97	1786.97	36.0	.8	.8	19.02	-0.00
200	1	-0.00	.625	20.00	38.04	3573.94	1786.97	1786.97	36.0	1.6	.8	19.02	-0.00
[illegible]	1	-0.00	1.000	30.00	91.11	19177.85	9588.93	9588.93	36.0	1.0	1.0	45.55	-0.00
[illegible]	1	-0.00	1.750	42.00	221.29	89793.68	44896.84	44896.84	36.0	1.0	1.0	110.64	-0.00
P2	1	-0.00	2.000	42.00	251.33	100782.29	50391.15	50391.15	36.0	1.0	1.0	125.66	-0.00
[illegible]	1	-0.00	2.000	42.00	251.33	100782.29	50391.15	50391.15	36.0	1.0	1.0	125.66	-0.00
[illegible]	1	-0.00	1.750	48.00	254.27	136170.95	68085.48	68085.48	36.0	1.0	1.0	127.14	-0.00
[illegible]	1	-0.00	1.000	46.50	142.94	74017.39	37008.70	37008.70	36.0	1.0	1.0	71.47	-0.00
[illegible]	1	-0.00	1.000	46.50	142.94	74017.39	37008.70	37008.70	36.0	1.0	1.0	71.47	-0.00
[illegible]	1	-0.00	.500	45.50	70.69	35789.12	17894.56	17894.56	36.0	1.0	1.0	35.34	-0.00
JL8	1	-0.00	.500	45.50	70.69	35789.12	17894.56	17894.56	36.0	1.0	1.0	35.34	-0.00
[illegible]	1	-0.00	.500	45.50	70.69	35789.12	17894.56	17894.56	36.0	1.0	1.0	35.34	-0.00
[illegible]	1	-0.00	.500	18.00	27.49	2106.34	1053.17	1053.17	36.0	1.0	1.0	13.74	-0.00

S T R A N - G R O U P P R O P E R T I E S R E P O R T

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET
WIDE FLANGE/WIDE FLANGE COMPACT MEMBER PROPERTIES

GRP	M/S	JOINT THICK FT.	FLANGE THICK IN.	FLANGE WIDTH IN.	WEB THICK IN.	FILET RADIUS IN.	DEPTH IN.	AX IN2	IX IN4	IY IN4	IZ IN4	FY KSI	KY	KZ	LB FT.	INPUT SEC LEN FT.
*** E = 29000000.0 PSI, G = 11600000.0 PSI ***																
W18	1	-0.00	.570	7.50	.358	.500	18.00	16.20	1.25	802.00	40.20	36.0	2.0	.5	.01	-0.00
W08	1	-0.00	.398	6.50	.245	.500	7.93	7.06	.34	82.50	18.20	36.0	1.0	1.0	.01	-0.00
W06	1	-0.00	.269	6.00	.235	.500	6.00	4.56	.11	30.10	9.67	36.0	1.0	1.0	.01	-0.00

S T R A N - G R O U P P R O P E R T I E S R E P O R T

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET
PRISMATIC SECTION MEMBERS

GRP	M/S	JOINT THICK FT.	Z-DPTH IN.	Y-DPTH IN.	AX IN2	IX IN4	IY IN4	IZ IN4	FY KSI	KY	KZ	INPUT SEC LEN FT.
*** E = 29000000.0 PSI, G = 11600000.0 PSI ***												
MMN	1	-0.00	10.00	5.00	50.00	30000.00	30000.00	30000.00	36.0	1.0	1.0	-0.00

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

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                  1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

    1  OPTIONS  1 2 3 4 5 6 7 8
    2  SECT
    3  SECT WISHBON   PRI  5000 3000000 3000000 3000000   1000          500
    4  SECT W18X50    WFC  1620      125   80200    4020    750  570  1800  358   50
    5  SECT W8X24     WFC   706       34    8250    1820    650  398   795  245   50
    6  SECT W8X15     WFC   456       11    3010     967    600  269   600  235   50
    7  GRUP
    8  GRUP [illegible]         862   500  29   116  36         100 100       5000
    9  GRUP [illegible]        1075   365  29   116  36         100 100       5000
   10  GRUP [illegible]        1075   844  29   116  36         100 100       5000
   11  GRUP 107                1075   365  29   116  36         100 100       5000
   12  GRUP [illegible]        1075   365  29   116  36         100 100       5000
   13  GRUP [illegible]        1075   365  29   116  36         100 100       5000
   14  GRUP [illegible]        1275   500  29   116  36          80  80       5000
   15  GRUP [illegible]        1275   500  29   116  36          80  80       5000
   16  GRUP [illegible]        1275   500  29   116  36          80  80       5000
   17  GRUP [illegible]        1275   500  29   116  36         160  80       5000
   18  GRUP [illegible]        1400   375  29   116  36          80  80       5000
   19  GRUP [illegible]        1400   [illegible]  29   116  36         160  80       5000
   20  GRUP [illegible]        1400   375  29   116  36          80  80       5000
   21  GRUP [illegible]        1500   625  29   116  36         160  80       5000
   22  GRUP [illegible]        1600   500  29   116  36         160  80       5000
   23  GRUP [illegible]        1800   500  29   116  36          80  80       5000
   24  GRUP [illegible]        2000   625  29   116  36          80  80       5000
   25  GRUP [illegible]        2000   [illegible]  29   116  36         160  80       5000
   26  GRUP [illegible]        3000  1000  29   116  36         100 100       5000
   27  [illegible]             4200  1750  29   116  36         100 100       5000
   28  GRUP [illegible]        4200  2000  29   116  36         100 100       5000
   29  [illegible]             4200  2000  29   116  36         100 100       5000
   30  [illegible]             4500  1750  29   116  36         100 100       5000
   31  GRUP [illegible]        4650  1000  29   116  36         100 100       5000
   32  GRUP [illegible]        4650  1000  29   116  36         100 100       5000
   33  GRUP [illegible]        4550   500  29   116  36         100 100       5000
   34  GRUP [illegible]        4550   500  29   116  36         100 100       5000
   35  GRUP [illegible]        4550   500  29   116  36         100 100       5000
   36  GRUP [illegible]        1800   500  29   116  36         100 100       5000
   37  GRUP [illegible] WISHBON            29   116  36
   38  GRUP W10 W18X50                     29   116  36         200  50   01
   39  GRUP [illegible] W8X24              29   116  36         100 100   01
   40  GRUP [illegible] W8X15              29   116  36         100 100   01
   41  MEMBER
   42  MEMBER  101 102 W18                                                       1800
   43  MEMBER  102 103 W18                                                       1800
   44  MEMBER  103 105 W18                                                       1800
   45  MEMBER  105 106 W18                                                       1800
   46  MEMBER  101 104 W18                                                       1800
   47  MEMBER  104 105 W18                                                       1800
   48  MEMBER  102 104 W08                                                        800
   49  MEMBER  102 105 W08                                                        800
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S T R A N   I N P U T   D A T A

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

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                  1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

     50  MEMBER  104 105 W08                                                        800
     51  MEMBER  201 202 W18                                                       1800
     52  MEMBER  202 203 W18                                                       1800
     53  MEMBER  203 205 W18                                                       1800
     54  MEMBER  205 206 W18                                                       1800
     55  MEMBER  201 204 W18                                                       1800
     56  MEMBER  204 206 W18                                                       1800
     57  MEMBER  202 204 W08                                                        800
     58  MEMBER  202 205 W08                                                        800
     59  MEMBER  204 205 W08                                                        800
     60  MEMBER  201 303 120                                                       2400
     61  MEMBER  203 306 120                                                       2400
     62  MEMBER  206 301 120                                                       3600
     63  MEMBER  301 403 120SK                                                     2400
     64  MEMBER  106 201 120SK                                                     2400
     65  MEMBER  301 303 123                                                       2000
     66  MEMBER  303 306 123                                                       2000
     67  MEMBER  301 306 123                                                       2000
     68  MEMBER  501 502 165                                                       1600
     69  MEMBER  502 503 165                                                       1600
     70  MEMBER  503 505 165                                                       1600
     71  MEMBER  505 506 165                                                       1600
     72  MEMBER  501 504 165                                                       1600
     73  MEMBER  504 506 165                                                       1600
     74  MEMBER  502 504 105                                                       1075
     75  MEMBER  502 505 105                                                       1075
     76  MEMBER  504 505 105                                                       1075
     77  MEMBER  501 507 W6NSK                                                     0000
     78  MEMBER  507 510 W6NSK          1111                                       0000
     79  MEMBER  503 508 W6NSK                                                     0000
     80  MEMBER  508 511 W6NSK          1111                                       0000
     81  MEMBER  506 509 W6NSK                                                     0000
     82  MEMBER  509 512 W6NSK          1111                                       0000
     83  MEMBER  501 513 125SK                                                     1200
     84  MEMBER  503 514 125SK                                                     1200
     85  MEMBER  513 651 H0MSK                                                     4000
     86  MEMBER  514 653 H0MSK                                                     4000
     87  MEMBER  601 611 106SK                                                     1400
     88  MEMBER  603 613 106SK                                                     1400
     89  MEMBER  651 661 106SK                                                     1400
     90  MEMBER  653 663 106SK                                                     1400
     91  MEMBER  611 612 086SK                                                     1200
     92  MEMBER  612 613 086SK                                                     1200-
     93  MEMBER  661 662 086SK                                                     2680
     94  MEMBER  662 663 086SK                                                     2680
     95  MEMBER  611 661 106SK                                                     3000
     96  MEMBER  612 662 106SK                                                     2000
     97  MEMBER  613 663 106SK                                                     3000
     98  MEMBER  501 622 200                                                       2000
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S T R A N   I N P U T   D A T A

PAGE 3
DATE 10/05/76

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

LINE NO.	1...5....0....5....0....5				3...0....5	7...5....0
99	MEMBER	622	703	200		3032
100	MEMBER	503	625	200		2000
101	MEMBER	625	706	200		3032
102	MEMBER	506	624	200		2000
103	MEMBER	624	701	200		3032
104	MEMBER	701	702	137		2033
105	MEMBER	702	703	137		2033
106	MEMBER	703	705	137		2033
107	MEMBER	705	706	137		2033
108	MEMBER	701	704	137		2033
109	MEMBER	704	706	137		2033
110	MEMBER	702	704	107		1757
111	MEMBER	702	705	107		1757
112	MEMBER	704	705	107		1757
113	MEMBER	701	707	MBNSK		0000
114	MEMBER	707	710	MBNSK	1111	0000
115	MEMBER	703	708	MBNSK		0000
116	MEMBER	708	711	MBNSK	1111	0000
117	MEMBER	706	709	MBNSK		0000
118	MEMBER	709	712	MBNSK	1111	0000
119	MEMBER	701	806	200		3032
120	MEMBER	703	801	200		3032
121	MEMBER	706	803	200		3032
122	MEMBER	801	802	148		2205
123	MEMBER	802	803	148		2205
124	MEMBER	803	805	148		2205
125	MEMBER	805	806	148		2205
126	MEMBER	801	804	148		2205
127	MEMBER	804	806	148		2205
128	MEMBER	802	804	108		1757
129	MEMBER	802	805	108		1757
130	MEMBER	804	805	108		1757
131	MEMBER	801	807	MBNSK		0000
132	MEMBER	807	810	MBNSK	1111	0000
133	MEMBER	803	808	MBNSK		0000
134	MEMBER	808	811	MBNSK	1111	0000
135	MEMBER	806	809	MBNSK		0000
136	MEMBER	809	812	MBNSK	1111	0000
137	MEMBER	801	903	200		3032
138	MEMBER	803	906	200		3032
139	MEMBER	806	901	200		3032
140	MEMBER	901	902	169		2481
141	MEMBER	902	903	169		2481
142	MEMBER	903	905	169		2481
143	MEMBER	905	906	169		2481
144	MEMBER	901	904	169		2481
145	MEMBER	904	906	169		2481
146	MEMBER	902	904	109		1757
147	MEMBER	902	905	109		1757

S T R A N   I N P U T   D A T A

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

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                   1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

   148  MEMBER   904 905 109                                                      1757
   149  MEMBER   901 907 WBNSK                                                    0000
   150  MEMBER   907 910 WBNSK       1111                                         0000
   151  MEMBER   903 908 WBNSK                                                    0000
   152  MEMBER   908 911 WBNSK       1111                                         0000
   153  MEMBER   906 909 WBNSK                                                    0000
   154  MEMBER   909 912 WBNSK       1111                                         0000
   155  MEMBER   9011002 180                                                      2757
   156  MEMBER   9031002 180                                                      2757
   157  MEMBER   9031005 180                                                      2757
   158  MEMBER   9061005 180                                                      2757
   159  MEMBER   9011004 180                                                      2757
   160  MEMBER   9061004 180                                                      2757
   161  MEMBER  10011002 200                                                      3032
   162  MEMBER  10021003 200                                                      3032
   163  MEMBER  10031005 200                                                      3032
   164  MEMBER  10051006 200                                                      3032
   165  MEMBER  10011004 200                                                      3032
   166  MEMBER  10041006 200                                                      3032
   167  MEMBER  10021004 140                                                      2205
   168  MEMBER  10021005 140                                                      2205
   169  MEMBER  10041005 140                                                      2205
   170  MEMBER  10011007 WBNSK                                                    0000
   171  MEMBER  10071010 WBNSK       1111                                         0000
   172  MEMBER  10031008 WBNSK                                                    0000
   173  MEMBER  10081011 WBNSK       1111                                         0000
   174  MEMBER  10061009 WBNSK                                                    0000
   175  MEMBER  10091012 WBNSK       1111                                         0000
   176  MEMBER   101 201 DKL                                                      3000
   177  MEMBER   103 203 DKL                                                      3000
   178  MEMBER   106 206 DKL                                                      3000
   179  MEMBER   201 301 DKL                                                      3000
   180  MEMBER   203 303 DKL                                                      3000
   181  MEMBER   206 306 DKL                                                      3000
   182  MEMBER   301 401 DKL                                                      3000
   183  MEMBER   303 403 DKL                                                      3000
   184  MEMBER   306 406 DKL                                                      3000
   185  MEMBER   401 501 JL4                                                  F   4800
   186  MEMBER   403 503 JL4                                                  F   4800
   187  MEMBER   406 506 JL4                                                  F   4800
   188  MEMBER   501 601 JL5                                                  F   4750
   189  MEMBER   503 603 JL5                                                  F   4750
   190  MEMBER   506 606 JL5                                                  F   4750
   191  MEMBER   601 621 JL6                                                  F   4750
   192  MEMBER   603 623 JL6                                                  F   4750
   193  MEMBER   606 626 JL6                                                  F   4750
   194  MEMBER   621 651 JL6                                                  F   6623
   195  MEMBER   623 653 JL6                                                  F   6623
   196  MEMBER   626 656 JL6                                                  F   6623
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STRAN INPUT DATA

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

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                  1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

   197   MEMBER   651 701 JL6                                                   F  6823
   198   MEMBER   653 703 JL6                                                   F  6823
   199   MEMBER   656 706 JL6                                                   F  6823
   200   MEMBER   701 801 JL7                                                   F  6547
   201   MEMBER   703 803 JL7                                                   F  6547
   202   MEMBER   706 805 JL7                                                   F  6547
   203   MEMBER   801 901 JL8                                                   F  6547
   204   MEMBER   803 903 JL8                                                   F  6547
   205   MEMBER   806 906 JL8                                                   F  6547
   206   MEMBER   9011001 JL9                                                   F  6547
   207   MEMBER   9031003 JL9                                                   F  6547
   208   MEMBER   9061006 JL9                                                   F  6547
   209   MEMBER   401 510  P1                                                   F  0000 1
   210   MEMBER   403 511  P1                                                   F  0000 2
   211   MEMBER   406 512  P1                                                   F  0000 3
   212   MEMBER   510 710  P1                                                   F  0000 1
   213   MEMBER   511 711  P1                                                   F  0000 2
   214   MEMBER   512 712  P1                                                   F  0000 3
   215   MEMBER   710 810  P2                                                   F  0000 1
   216   MEMBER   711 811  P2                                                   F  0000 2
   217   MEMBER   712 812  P2                                                   F  0000 3
   218   MEMBER   810 910  P2                                                   F  0000 1
   219   MEMBER   811 911  P2                                                   F  0000 2
   220   MEMBER   812 912  P2                                                   F  0000 3
   221   MEMBER  1010 910  P3                                                   F  0000 1
   222   MEMBER  1011 911  P3                                                   F  0000 2
   223   MEMBER  1012 912  P3                                                   F  0000 3
   224   FOUND
   225   CVRG       5  .05        .05        .005
   226   PILE    1010  200.0
   227   PROP            42.0     42.0       2.00     20.0
   228   PROP            42.0     42.0       1.75     70.0
   229   PROP            42.0     42.0       1.50    200.0
   230   PY         2     0.0
   231   FORCE            0.0       0.0
   232   DEFL             0.0      20.0
   233   PY         8     8.0
   234   FORCE            0.0      0.107     0.129     0.153     0.169     0.188
   235   FORCE            0.237    0.237
   236   DEFL             0.0      0.050     0.120     0.270     0.430     0.700
   237   DEFL             1.580   20.000
   238   PY         8    14.0
   239   FORCE            0.0      0.366     0.611     0.906     1.136     1.440
   240   FORCE            2.274    2.274
   241   DEFL             0.0      0.036     0.110     0.260     0.420     0.700
   242   DEFL             1.580   20.000
   243   PY         8    24.0
   244   FORCE            0.0      1.244     1.681     2.347     2.895     3.644
   245   FORCE            5.831    5.831
```

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

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                      1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1....5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0
```

LINE NO.	CARD								
246	DEFL		0.0	0.070	0.140	0.280	0.430	0.700	
247	DEFL		1.580	20.000					
248	PY	6	34.0						
249	FORCE		0.0	3.021	3.693	4.742	5.659	6.950	
250	FORCE		11.120	11.120					
251	DEFL		0.0	0.120	0.190	0.320	0.460	0.700	
252	DEFL		1.580	20.000					
253	PY	6	48.0						
254	FORCE		0.0	7.634	8.468	9.913	11.273	13.280	
255	FORCE		21.248	21.248					
256	DEFL		0.0	0.220	0.270	0.380	0.500	0.700	
257	DEFL		1.580	20.000					
258	PY	6	68.0						
259	FORCE		0.0	10.718	11.997	14.043	15.970	18.814	
260	FORCE		30.102	30.102					
261	DEFL		0.0	0.220	0.270	0.380	0.500	0.700	
262	DEFL		1.580	20.000					
263	PY	6	102.0						
264	FORCE		0.0	16.223	17.995	21.064	23.954	28.221	
265	FORCE		45.153	45.153					
266	DEFL		0.0	0.220	0.270	0.380	0.500	0.700	
267	DEFL		1.580	20.000					
268	PY	7	102.1						
269	FORCE		0.0	0.967	1.313	1.718	2.418	3.281	
270	FORCE		3.241	0.					
271	DEFL		0.0	0.075	0.190	0.47	1.180	2.940	
272	DEFL		20.000						
273	PY	7	136.0						
274	[illegible]		0.0	0.967	1.313	1.718	2.418	3.281	
275	FORCE		3.241						
276	DEFL		0.0	0.075	0.190	0.47	1.180	2.940	
277	DEFL		20.000						
278	PILE	1011	200.0						
279	PILE	1012	200.0						
280	JOINT								
281	JOINT	101	14.50	-8.37	180.00				TOP DECK
282	JOINT	102	0.0	-8.37	180.00				TOP DECK
283	JOINT	103	-14.50	-8.37	180.00				TOP DECK
284	JOINT	104	7.25	4.18	180.00				TOP DECK
285	JOINT	105	-7.25	4.18	180.00				TOP DECK
286	JOINT	106	0.0	16.74	180.00				TOP DECK
287	JOINT	201	14.50	-8.37	165.00				EQM DECK
288	JOINT	202	0.0	-8.37	165.00				EQM DECK
289	JOINT	203	-14.50	-8.37	165.00				EQM DECK
290	JOINT	204	7.25	4.18	165.00				EQM DECK
291	JOINT	205	-7.25	4.18	165.00				EQM DECK
292	JOINT	206	0.0	16.74	165.00				EQM DECK
293	JOINT	301	14.50	-8.37	150.00				DK BRACE
294	JOINT	303	-14.50	-8.37	150.00				DK BRACE

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

LINE NO.	1...5....0	5	....0....5	....0....5	....0....5	....0....5....0....5....0....5....0....5....0....5....0....5....0
295	JOINT	306	0.0	16.74	150.00	OK BRACE
296	JOINT	401	14.50	-8.37	121.50	WP LEVEL
297	JOINT	403	-14.50	-8.37	121.50	WP LEVEL
298	JOINT	406	0.0	16.74	121.50	WP LEVEL
299	JOINT	501	15.15	-8.75	117.00	5 LEVEL
300	JOINT	502	0.0	-8.75	117.00	5 LEVEL
301	JOINT	503	-15.15	-8.75	117.00	5 LEVEL
302	JOINT	504	7.58	4.37	117.00	5 LEVEL
303	JOINT	505	-7.58	4.37	117.00	5 LEVEL
304	JOINT	506	0.0	17.49	117.00	5 LEVEL
305	JOINT	507	17.32	-10.00	117.41	5 LEVEL
306	JOINT	508	-17.32	-10.00	117.41	5 LEVEL
307	JOINT	509	0.	19.99	117.41	5 LEVEL
308	JOINT	510	15.15	-8.75	116.99	5 LEVEL
309	JOINT	511	-15.15	-8.75	116.99	5 LEVEL
310	JOINT	512	0.	17.49	116.99	5 LEVEL
311	JOINT	513	17.74	-10.25	11700	5 LEVEL
312	JOINT	514	-17.74	-10.25	11700	5 LEVEL
313	JOINT	515	0.	20.49	11700	5 LEVEL
314	JOINT	601	16.[illegible]1	-9.25	111.00	BOAT LDG
315	JOINT	603	-16.[illegible]1	-9.25	111.00	BOAT LDG
316	JOINT	606	0.0	16.50	111.00	BOAT LDG
317	JOINT	611	16.01	-15.25	11100	BOAT LDG
318	JOINT	612	0.[illegible]	-15.25	11100	BOAT LDG
319	JOINT	613	-16.[illegible]1	-15.25	11100	BOAT LDG
320	JOINT	621	16.[illegible]	-9.75	105.00	MLW
321	JOINT	622	-1.33	-9.75	105.00	MLW
322	JOINT	623	-16.[illegible]8	-9.75	105.00	MLW
323	JOINT	624	9.00	3.90	105.00	MLW
324	JOINT	625	-7.67	5.65	105.00	MLW
325	JOINT	626	0.00	19.49	105.00	MLW
326	JOINT	651	17.74	-10.25	99.00	BOAT LDG
327	JOINT	653	-17.74	-10.25	99.00	BOAT LDG
328	JOINT	656	0.0	20.49	99.00	BOAT LDG
329	JOINT	661	17.74	-15.25	9900	BOAT LDG
330	JOINT	662	0.0	-15.25	9900	BOAT LDG
331	JOINT	663	-17.74	-15.25	9900	BOAT LDG
332	JOINT	701	18.76	-10.83	92.00	7 LEVEL
333	JOINT	702	0.0	-10.83	92.00	7 LEVEL
334	JOINT	703	-18.76	-10.83	92.00	7 LEVEL
335	JOINT	704	9.38	5.41	92.00	7 LEVEL
336	JOINT	705	-9.38	5.41	92.00	7 LEVEL
337	JOINT	706	0.0	21.66	92.00	7 LEVEL
338	JOINT	707	20.93	-12.08	92.41	7 LEVEL
339	JOINT	708	-20.93	-12.08	92.41	7 LEVEL
340	JOINT	709	0.0	24.16	92.41	7 LEVEL
341	JOINT	710	18.76	-10.83	91.99	7 LEVEL
342	JOINT	711	-18.76	-10.83	91.99	7 LEVEL
343	JOINT	712	0.0	21.66	91.99	7 LEVEL

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                       1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO.  1....5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

  344   JOINT  801   22.79 -13.16  64.00                                  8 LEVEL
  345   JOINT  802    0.0  -13.16  64.00                                  8 LEVEL
  346   JOINT  803  -22.79 -13.16  64.00                                  8 LEVEL
  347   JOINT  804   11.40   6.58  64.00                                  8 LEVEL
  348   JOINT  805  -11.40   6.58  64.00                                  8 LEVEL
  349   JOINT  806    0.0   26.32  64.00                                  8 LEVEL
  350   JOINT  807   24.96 -14.41  64.41                                  8 LEVEL
  351   JOINT  808  -24.96 -14.41  64.41                                  8 LEVEL
  352   JOINT  809    0.0   28.82  64.41                                  8 LEVEL
  353   JOINT  810   22.79 -13.16  63.99                                  8 LEVEL
  354   JOINT  811  -22.79 -13.16  63.99                                  8 LEVEL
  355   JOINT  812    0.0   26.32  63.99                                  8 LEVEL
  356   JOINT  901   27.42 -15.83  32.00                                  9 LEVEL
  357   JOINT  902    0.0  -15.83  32.00                                  9 LEVEL
  358   JOINT  903  -27.42 -15.83  32.00                                  9 LEVEL
  359   JOINT  904   13.71   7.91  32.00                                  9 LEVEL
  360   JOINT  905  -13.71   7.91  32.00                                  9 LEVEL
  361   JOINT  906    0.0   31.66  32.00                                  9 LEVEL
  362   JOINT  907   29.59 -17.08  32.41                                  9 LEVEL
  363   JOINT  908  -29.59 -17.08  32.41                                  9 LEVEL
  364   JOINT  909    0.0   34.16  32.41                                  9 LEVEL
  365   JOINT  910   27.42 -15.83  31.99                                  9 LEVEL
  366   JOINT  911  -27.42 -15.83  31.99                                  9 LEVEL
  367   JOINT  912    0.0   31.66  31.99                                  9 LEVEL
  368   JOINT 1001   32.04 -18.50   0.0                                   MUDLINE
  369   JOINT 1002    0.0  -18.50   0.0                                   MUDLINE
  370   JOINT 1003  -32.04 -18.50   0.0                                   MUDLINE
  371   JOINT 1004   16.02   9.25   0.0                                   MUDLINE
  372   JOINT 1005  -16.02   9.25   0.0                                   MUDLINE
  373   JOINT 1006    0.0   37.00   0.0                                   MUDLINE
  374   JOINT 1007   34.21 -19.75   0.41                                  MUDLINE
  375   JOINT 1008  -34.21 -19.75   0.41                                  MUDLINE
  376   JOINT 1009    0.0   39.50   0.41                                  MUDLINE
  377   JOINT 1010   32.04 -18.50  -0.01                         111111   MUDLINE
  378   JOINT 1010                                               NONLIN   MUDLINE
  379   JOINT 1010                              1010        910  OBLIQU   MUDLINE
  380   JOINT 1011  -32.04 -18.50  -0.01                         111111   MUDLINE
  381   JOINT 1011                                               NONLIN   MUDLINE
  382   JOINT 1011                              1011        911  OBLIQU   MUDLINE
  383   JOINT 1012    0.0   37.00  -0.01                         111111   MUDLINE
  384   JOINT 1012                                               NONLIN   MUDLINE
  385   JOINT 1012                              1012        912  OBLIQU   MUDLINE
  386   LOAD
  387   LOADC    1
  388   LOAD X  513 651     9.27     03    4.37    03                  GLOB UNIF      WV 0 1
  389   LOAD Y  513 651     9.27     06    4.37    05                  GLOB UNIF      WV 0 1
  390   LOAD X  513 651    13.63     03    4.37    03                  GLOB UNIF      WV 0 1
  391   LOAD Y  513 651    13.63     05    4.37    05                  GLOB UNIF      WV 0 1
  392   LOAD X  514 653     8.00     04    5.33    03                  GLOB UNIF      WV 0 1
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             1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

   393   LOAD Y  514 653    6.00    06   3.33     06              GLOB UNIF     WV 0 1
   394   LOAD X  514 653   11.33    03   3.33     03              GLOB UNIF     WV 0 1
   395   LOAD Y  514 653   11.33    06   3.33     05              GLOB UNIF     WV 0 1
   396   LOAD X  514 653   14.67    03   3.33     03              GLOB UNIF     WV 0 1
   397   LOAD Y  514 653   14.67    05   3.33     05              GLOB UNIF     WV 0 1
   398   LOAD Y  661 662    0.00    03  17.74     03              GLOB UNIF     WV 0 1
   399   LOAD Y  662 663    0.00    03  17.74     03              GLOB UNIF     WV 0 1
   400   LOAD X  611 661    2.93    02   3.07     02              GLOB UNIF     WV 0 1
   401   LOAD Y  611 661    2.93    04   3.07     03              GLOB UNIF     WV 0 1
   402   LOAD X  611 661    5.99    02   3.07     02              GLOB UNIF     WV 0 1
   403   LOAD Y  611 661    5.99    03   3.07     03              GLOB UNIF     WV 0 1
   404   LOAD X  611 661    9.06    02   3.07     02              GLOB UNIF     WV 0 1
   405   LOAD Y  611 661    9.06    03   3.07     03              GLOB UNIF     WV 0 1
   406   LOAD X  612 662    2.31    1    3.23     1               GLOB UNIF     WV 0 1
   407   LOAD Y  612 662    2.31    02   3.23     02              GLOB UNIF     WV 0 1
   408   LOAD X  612 662    5.54    1    3.23     1               GLOB UNIF     WV 0 1
   409   LOAD Y  612 662    5.54    02   3.23     02              GLOB UNIF     WV 0 1
   410   LOAD X  612 662    8.77    1    3.23     1               GLOB UNIF     WV 0 1
   411   LOAD Y  612 662    8.77    02   3.23     02              GLOB UNIF     WV 0 1
   412   LOAD X  613 663    1.79    02   3.44     02              GLOB UNIF     WV 0 1
   413   LOAD Y  613 663    1.79    04   3.44     04              GLOB UNIF     WV 0 1
   414   LOAD X  613 663    5.24    02   3.44     02              GLOB UNIF     WV 0 1
   415   LOAD Y  613 663    5.24    04   3.44     03              GLOB UNIF     WV 0 1
   416   LOAD X  613 663    8.68    02   3.44     02              GLOB UNIF     WV 0 1
   417   LOAD Y  613 663    8.68    03   3.44     03              GLOB UNIF     WV 0 1
   418   LOAD Y  [illegible] 622   14.93    02   5.48     02              GLOB UNIF     WV 0 1
   419   LOAD X  622 703    0.00    1    7.26     1               GLOB UNIF     WV 0 1
   420   LOAD Y  622 703    0.00    03   7.26     03              GLOB UNIF     WV 0 1
   421   LOAD Z  622 703    0.00-   1    7.26-    1               GLOB UNIF     WV 0 1
   422   LOAD X  622 703    7.26    1    7.26     1               GLOB UNIF     WV 0 1
   423   LOAD Y  622 703    7.26    03   7.26     03              GLOB UNIF     WV 0 1
   424   LOAD Z  622 703    7.26-   1    7.26-    1               GLOB UNIF     WV 0 1
   425   LOAD X  622 703   14.51    1    7.26     1               GLOB UNIF     WV 0 1
   426   LOAD Y  622 703   14.51    03   7.26     02              GLOB UNIF     WV 0 1
   427   LOAD Z  622 703   14.51-   1    7.26-    1               GLOB UNIF     WV 0 1
   428   LOAD X  503 625   15.30    1    4.95     1               GLOB UNIF     WV 0 1
   429   LOAD Y  503 625   15.30    1    4.95     1               GLOB UNIF     WV 0 1
   430   LOAD Z  503 625   15.30    02   4.95     1               GLOB UNIF     WV 0 1
   431   LOAD X  625 706    0.00    1    7.31     1               GLOB UNIF     WV 0 1
   432   LOAD Y  625 706    0.00    02   7.31     1               GLOB UNIF     WV 0 1
   433   LOAD Z  625 706    0.00    03   7.31     02              GLOB UNIF     WV 0 1
   434   LOAD X  625 706    7.31    1    7.31     1               GLOB UNIF     WV 0 1
   435   LOAD Y  625 706    7.31    1    7.31     1               GLOB UNIF     WV 0 1
   436   LOAD Z  625 706    7.31    02   7.31     02              GLOB UNIF     WV 0 1
   437   LOAD X  625 706   14.62    1    7.31     1               GLOB UNIF     WV 0 1
   438   LOAD Y  625 706   14.62    1    7.31     1               GLOB UNIF     WV 0 1
   439   LOAD Z  625 706   14.62    02   7.31     02              GLOB UNIF     WV 0 1
   440   LOAD X  506 624   16.80    1    3.45     1               GLOB UNIF     WV 0 1
   441   LOAD Y  506 624   16.80    1    3.45     1               GLOB UNIF     WV 0 1
```

STRAN INPUT DATA

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```
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0
                  1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
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LINE NO.												
442	LOAD X	624 701	0.00	03	7.31	02	GLOB UNIF	WV 0 1
443	LOAD Y	624 701	0.00	02	7.31	02	GLOB UNIF	WV 0 1
444	LOAD X	624 701	7.31	02	7.31	02	GLOB UNIF	WV 0 1
445	LOAD Y	624 701	7.31	02	7.31	02	GLOB UNIF	WV 0 1
446	LOAD X	624 701	14.62	02	7.31	02	GLOB UNIF	WV 0 1
447	LOAD Y	624 701	14.62	02	7.31	02	GLOB UNIF	WV 0 1
448	LOAD Z	624 701	14.62		7.31-	1	GLOB UNIF	WV 0 1
449	LOAD Y	701 702	0.00	1	16.76	1	GLOB UNIF	WV 0 1
450	LOAD Y	702 703	0.00	1	16.76	1	GLOB UNIF	WV 0 1
451	LOAD Z	705 706	9.38		9.38	1	GLOB UNIF	WV 0 1
452	LOAD X	701 704	0.00	1	16.75	1	GLOB UNIF	WV 0 1
453	LOAD Y	701 704	0.00	1	16.75	1	GLOB UNIF	WV 0 1
454	LOAD X	704 706	0.00	1	16.76	1	GLOB UNIF	WV 0 1
455	LOAD Y	704 706	0.00	1	16.76	1	GLOB UNIF	WV 0 1
456	LOAD Z	704 706	0.00		16.76	1	GLOB UNIF	WV 0 1
457	LOAD X	702 705	0.00	1	16.75	1	GLOB UNIF	WV 0 1
458	LOAD Y	702 705	0.00	1	16.75	1	GLOB UNIF	WV 0 1
459	LOAD Y	704 705	0.00	1	16.76	1	GLOB UNIF	WV 0 1
460	LOAD X	701 806	0.00	02	16.72	02	GLOB UNIF	WV 0 1
461	LOAD Y	701 806	0.00	02	16.72	1	GLOB UNIF	WV 0 1
462	LOAD Z	701 806	0.00	1	16.72	1	GLOB UNIF	WV 0 1
463	LOAD X	701 806	16.72	02	16.72	1	GLOB UNIF	WV 0 1
464	LOAD Y	701 806	16.72	1	16.72	1	GLOB UNIF	WV 0 1
465	LOAD Z	701 806	16.72	1	16.72	1	GLOB UNIF	WV 0 1
466	LOAD X	701 806	33.44	1	16.72	1	GLOB UNIF	WV 0 1
467	LOAD Y	701 806	33.44	1	16.72	1	GLOB UNIF	WV 0 1
468	LOAD Z	701 806	33.44	1	16.72	1	GLOB UNIF	WV 0 1
469	LOAD Y	703 801	0.00	03	16.72	02	GLOB UNIF	WV 0 1
470	LOAD Y	703 801	16.72	02	16.72	02	GLOB UNIF	WV 0 1
471	LOAD Y	703 801	33.44	02	16.72	1	GLOB UNIF	WV 0 1
472	LOAD Y	706 803	0.00		50.16	1	GLOB UNIF	WV 0 1
473	LOAD Z	706 803	0.00-	1	50.16-	1	GLOB UNIF	WV 0 1
474	LOAD Y	801 802	0.00	1	22.79	1	GLOB UNIF	WV 0 1
475	LOAD Y	802 803	0.00	1	22.79	1	GLOB UNIF	WV 0 1
476	LOAD X	801 804	0.00	1	22.79	1	GLOB UNIF	WV 0 1
477	LOAD X	804 806	0.00	1	22.80	1	GLOB UNIF	WV 0 1
478	LOAD X	802 805	0.00	1	22.80	1	GLOB UNIF	WV 0 1
479	LOAD Y	804 805	0.00	1	22.80	1	GLOB UNIF	WV 0 1
480	LOAD Y	801 903	0.00	1	19.87	1	GLOB UNIF	WV 0 1
481	LOAD Y	801 903	19.87	1	19.87	1	GLOB UNIF	WV 0 1
482	LOAD Y	801 903	39.73	1	19.87	1	GLOB UNIF	WV 0 1
483	LOAD X	806 901	0.00	1	19.87	1	GLOB UNIF	WV 0 1
484	LOAD Y	806 901	0.00	1	19.87	1	GLOB UNIF	WV 0 1
485	LOAD X	806 901	19.87	1	19.87	1	GLOB UNIF	WV 0 1
486	LOAD Y	806 901	19.87	1	19.87	1	GLOB UNIF	WV 0 1
487	LOAD X	806 901	39.74	1	19.87	1	GLOB UNIF	WV 0 1
488	LOAD Y	806 901	39.74	1	19.87	1	GLOB UNIF	WV 0 1
489	LOAD Y	901 902	0.00	1	27.42		GLOB UNIF	WV 0 1
490	LOAD Y	9011002	0.00	1	14.08		GLOB UNIF	WV 0 1

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

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                 1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

   491   LOAD Y  9031002    0.00     1  14.08                      GLOB UNIF     WV 0 1
   492   LOAD Y 10011002    0.00     1  10.02                      GLOB UNIF     WV 0 1
   493   LOAD X  601 621    3.66    05   3.05     04               GLOB UNIF     WV 0 1
   494   LOAD Y  601 621    3.66    08   3.05     08               GLOB UNIF     WV 0 1
   495   LOAD X  603 623    2.30    04   4.41     04               GLOB UNIF     WV 0 1
   496   LOAD Y  603 623    2.30    07   4.41     07               GLOB UNIF     WV 0 1
   497   LOAD Z  603 623    2.30-   04   4.41-    03               GLOB UNIF     WV 0 1
   498   LOAD X  606 626    5.16    04   1.54     04               GLOB UNIF     WV 0 1
   499   LOAD Y  606 626    5.16    07   1.54     07               GLOB UNIF     WV 0 1
   500   LOAD Z  606 626    5.16    03   1.54     03               GLOB UNIF     WV 0 1
   501   LOAD X  621 651    0.00    09   3.04     08               GLOB UNIF     WV 0 1
   502   LOAD Y  621 651    0.00    14   3.04     14               GLOB UNIF     WV 0 1
   503   LOAD X  621 651    3.04    08   3.04     08               GLOB UNIF     WV 0 1
   504   LOAD Y  621 651    3.04    14   3.04     13               GLOB UNIF     WV 0 1
   505   LOAD X  623 653    0.00    07   3.04     06               GLOB UNIF     WV 0 1
   506   LOAD Y  623 653    0.00    14   3.04     13               GLOB UNIF     WV 0 1
   507   LOAD Z  623 653    0.00    02   3.04     02               GLOB UNIF     WV 0 1
   508   LOAD X  623 653    3.04    06   3.04     06               GLOB UNIF     WV 0 1
   509   LOAD Y  623 653    3.04    13   3.04     12               GLOB UNIF     WV 0 1
   510   LOAD Z  623 653    3.04    02   3.04     02               GLOB UNIF     WV 0 1
   511   LOAD X  626 656    0.00    08   3.04     07               GLOB UNIF     WV 0 1
   512   LOAD Y  626 656    0.00    13   3.04     12               GLOB UNIF     WV 0 1
   513   LOAD Z  626 656    0.00-   02   3.04-    02               GLOB UNIF     WV 0 1
   514   LOAD X  626 656    3.04    07   3.04     07               GLOB UNIF     WV 0 1
   515   LOAD Y  626 656    3.04    12   3.04     11               GLOB UNIF     WV 0 1
   516   LOAD Z  626 656    3.04-   02   3.04-    02               GLOB UNIF     WV 0 1
   517   LOAD X  651 701    0.00    07   3.55     07               GLOB UNIF     WV 0 1
   518   LOAD Y  651 701    0.00    13   3.55     12               GLOB UNIF     WV 0 1
   519   LOAD X  651 701    3.55    07   3.55     06               GLOB UNIF     WV 0 1
   520   LOAD Y  651 701    3.55    12   3.55     11               GLOB UNIF     WV 0 1
   521   LOAD X  656 706    0.00    07   3.55     07               GLOB UNIF     WV 0 1
   522   LOAD Y  656 706    0.00    12   3.55     11               GLOB UNIF     WV 0 1
   523   LOAD Z  656 706    0.00    02   3.55     02               GLOB UNIF     WV 0 1
   524   LOAD X  656 706    3.55    07   3.55     06               GLOB UNIF     WV 0 1
   525   LOAD Y  656 706    3.55    11   3.55     11               GLOB UNIF     WV 0 1
   526   LOAD Z  656 706    3.55    02   3.55     02               GLOB UNIF     WV 0 1
   527   LOAD X  653 703    0.00    07   3.55     07               GLOB UNIF     WV 0 1
   528   LOAD Y  653 703    0.00    12   3.55     11               GLOB UNIF     WV 0 1
   529   LOAD Z  653 703    0.00-   02   3.55-    02               GLOB UNIF     WV 0 1
   530   LOAD X  653 703    3.55    07   3.55     06               GLOB UNIF     WV 0 1
   531   LOAD Y  653 703    3.55    11   3.55     10               GLOB UNIF     WV 0 1
   532   LOAD Z  653 703    3.55-   02   3.55-    02               GLOB UNIF     WV 0 1
   533   LOAD X  701 801    0.00    06   9.46     05               GLOB UNIF     WV 0 1
   534   LOAD Y  701 801    0.00    11   9.46     09               GLOB UNIF     WV 0 1
   535   LOAD X  701 801    9.46    05   9.46     04               GLOB UNIF     WV 0 1
   536   LOAD Y  701 801    9.46    09   9.46     07               GLOB UNIF     WV 0 1
   537   LOAD X  701 801   18.92    04   9.46     03               GLOB UNIF     WV 0 1
   538   LOAD Y  701 801   18.92    07   9.46     06               GLOB UNIF     WV 0 1
   539   LOAD X  703 803    0.00    06   9.46     05               GLOB UNIF     WV 0 1
```

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                1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0
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LINE NO.													
540	LOAD	Y	703	803	0.00	10	9.46	08	GLOB	UNIF	WV	0	1
541	LOAD	Z	703	803	0.00-	02	9.46-	1	GLOB	UNIF	WV	0	1
542	LOAD	X	703	803	9.46	05	9.46	04	GLOB	UNIF	WV	0	1
543	LOAD	Y	703	803	9.46	08	9.46	06	GLOB	UNIF	WV	0	1
544	LOAD	Z	703	803	9.46-	1	9.46-	1	GLOB	UNIF	WV	0	1
545	LOAD	X	703	803	18.92	04	9.46	03	GLOB	UNIF	WV	0	1
546	LOAD	Y	703	803	18.92	06	9.46	05	GLOB	UNIF	WV	0	1
547	LOAD	Z	703	803	18.92-	1	9.46-	1	GLOB	UNIF	WV	0	1
548	LOAD	X	706	806	0.00	06	9.46	05	GLOB	UNIF	WV	0	1
549	LOAD	Y	706	806	0.00	10	9.46	08	GLOB	UNIF	WV	0	1
550	LOAD	Z	706	806	0.00	02	9.46	1	GLOB	UNIF	WV	0	1
551	LOAD	X	706	806	9.46	05	9.46	04	GLOB	UNIF	WV	0	1
552	LOAD	Y	706	806	9.46	08	9.46	07	GLOB	UNIF	WV	0	1
553	LOAD	Z	706	806	9.46	1	9.46	1	GLOB	UNIF	WV	0	1
554	LOAD	X	706	806	18.92	04	9.46	03	GLOB	UNIF	WV	0	1
555	LOAD	Y	706	806	18.92	07	9.46	06	GLOB	UNIF	WV	0	1
556	LOAD	Z	706	806	18.92	1	9.46	1	GLOB	UNIF	WV	0	1
557	LOAD	X	801	901	0.00	03	10.81	03	GLOB	UNIF	WV	0	1
558	LOAD	Y	801	901	0.00	06	10.81	05	GLOB	UNIF	WV	0	1
559	LOAD	X	801	901	10.81	03	10.81	02	GLOB	UNIF	WV	0	1
560	LOAD	Y	801	901	10.81	05	10.81	04	GLOB	UNIF	WV	0	1
561	LOAD	X	801	901	21.63	02	10.81	02	GLOB	UNIF	WV	0	1
562	LOAD	Y	801	901	21.63	04	10.81	03	GLOB	UNIF	WV	0	1
563	LOAD	X	803	903	0.00	03	10.81	03	GLOB	UNIF	WV	0	1
564	LOAD	Y	803	903	0.00	05	10.81	04	GLOB	UNIF	WV	0	1
565	LOAD	Z	803	903	0.00-	1	10.81-	1	GLOB	UNIF	WV	0	1
566	LOAD	X	803	903	10.81	03	10.81	02	GLOB	UNIF	WV	0	1
567	LOAD	Y	803	903	10.81	04	10.81	03	GLOB	UNIF	WV	0	1
568	LOAD	Z	803	903	10.81-	1	10.81-	1	GLOB	UNIF	WV	0	1
569	LOAD	X	803	903	21.63	02	10.81	02	GLOB	UNIF	WV	0	1
570	LOAD	Y	803	903	21.63	03	10.81	03	GLOB	UNIF	WV	0	1
571	LOAD	Z	803	903	21.63-	1	10.81		GLOB	UNIF	WV	0	1
572	LOAD	X	806	906	0.00	03	10.81	03	GLOB	UNIF	WV	0	1
573	LOAD	Y	806	906	0.00	06	10.81	05	GLOB	UNIF	WV	0	1
574	LOAD	Z	806	906	0.00	1	10.81	1	GLOB	UNIF	WV	0	1
575	LOAD	X	806	906	10.81	03	10.81	02	GLOB	UNIF	WV	0	1
576	LOAD	Y	806	906	10.81	05	10.81	04	GLOB	UNIF	WV	0	1
577	LOAD	Z	806	906	10.81	1	10.81	1	GLOB	UNIF	WV	0	1
578	LOAD	X	806	906	21.63	02	10.81	02	GLOB	UNIF	WV	0	1
579	LOAD	Y	806	906	21.63	04	10.81	03	GLOB	UNIF	WV	0	1
580	LOAD	Z	806	906	21.63	1	10.81		GLOB	UNIF	WV	0	1
581	LOAD	X	901	1001	0.00	02	10.81	02	GLOB	UNIF	WV	0	1
582	LOAD	Y	901	1001	0.00	03	10.81	03	GLOB	UNIF	WV	0	1
583	LOAD	X	901	1001	10.81	02	10.81	1	GLOB	UNIF	WV	0	1
584	LOAD	Y	901	1001	10.81	03	10.81	03	GLOB	UNIF	WV	0	1
585	LOAD	X	901	1001	21.63	1	10.81	1	GLOB	UNIF	WV	0	1
586	LOAD	Y	901	1001	21.63	03	10.81	03	GLOB	UNIF	WV	0	1
587	LOAD	X	903	1003	0.00	02	10.81	1	GLOB	UNIF	WV	0	1
588	LOAD	Y	903	1003	0.00	03	10.81	02	GLOB	UNIF	WV	0	1

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LINE NO.	1							
589	LOAD X	9031003	10.81	1	10.81	1	GLOB UNIF	WV 0 1
590	LOAD Y	9031003	10.81	02	10.81	02	GLOB UNIF	WV 0 1
591	LOAD X	9031003	21.63	1	10.81	1	GLOB UNIF	WV 0 1
592	LOAD Y	9031003	21.63	02	10.81	02	GLOB UNIF	WV 0 1
593	LOAD X	9061006	0.00	02	10.81	02	GLOB UNIF	WV 0 1
594	LOAD Y	9061006	0.00	03	10.81	03	GLOB UNIF	WV 0 1
595	LOAD X	9061006	10.81	02	10.81	1	GLOB UNIF	WV 0 1
596	LOAD Y	9061006	10.81	03	10.81	02	GLOB UNIF	WV 0 1
597	LOAD X	9061006	21.63	1	10.81	1	GLOB UNIF	WV 0 1
598	LOAD Y	9061006	21.63	02	10.81	02	GLOB UNIF	WV 0 1
599	LOADCN	2						
600	LOAD X	513 651	10.76-	03	3.62-	02	GLOB UNIF	WV 0 2
601	LOAD Y	513 651	10.76-	05	3.62-	04	GLOB UNIF	WV 0 2
602	LOAD X	513 651	14.38-	02	3.62-	02	GLOB UNIF	WV 0 2
603	LOAD Y	513 651	14.38-	04	3.62-	04	GLOB UNIF	WV 0 2
604	LOAD X	514 653	11.94-	02	3.03-	02	GLOB UNIF	WV 0 2
605	LOAD Y	514 653	11.94-	04	3.03-	04	GLOB UNIF	WV 0 2
606	LOAD X	514 653	14.97-	02	3.03-	02	GLOB UNIF	WV 0 2
607	LOAD Y	514 653	14.97-	04	3.03-	04	GLOB UNIF	WV 0 2
608	LOAD Y	661 662	0.00-	02	17.74-	02	GLOB UNIF	WV 0 2
609	LOAD Y	662 663	0.00-	02	17.74-	02	GLOB UNIF	WV 0 2
610	LOAD Z	662 663	0.00		17.74	1	GLOB UNIF	WV 0 2
611	LOAD X	611 661	5.16-	1	3.48-	1	GLOB UNIF	WV 0 2
612	LOAD Y	611 661	5.16-	03	3.48-	02	GLOB UNIF	WV 0 2
613	LOAD X	611 661	8.64-	1	3.48-	1	GLOB UNIF	WV 0 2
614	LOAD Y	611 661	8.64-	02	3.48-	02	GLOB UNIF	WV 0 2
615	LOAD X	612 662	5.66-	1	3.17-	1	GLOB UNIF	WV 0 2
616	LOAD Y	612 662	5.66-	1	3.17-	1	GLOB UNIF	WV 0 2
617	LOAD X	612 662	8.83-	1	3.17		GLOB UNIF	WV 0 2
618	LOAD Y	612 662	8.83-	1	3.17-	1	GLOB UNIF	WV 0 2
619	LOAD X	613 663	6.23-	1	2.95-	1	GLOB UNIF	WV 0 2
620	LOAD Y	613 663	6.23-	02	2.95-	02	GLOB UNIF	WV 0 2
621	LOAD X	613 663	9.18-	1	2.95-	1	GLOB UNIF	WV 0 2
622	LOAD Y	613 663	9.18-	02	2.95-	02	GLOB UNIF	WV 0 2
623	LOAD Y	501 622	19.33-	1	1.08-	1	GLOB UNIF	WV 0 2
624	LOAD Y	622 703	0.00-	02	7.26-	02	GLOB UNIF	WV 0 2
625	LOAD Z	622 703	0.00	1	7.26	1	GLOB UNIF	WV 0 2
626	LOAD X	622 703	7.26		7.26-	1	GLOB UNIF	WV 0 2
627	LOAD Y	622 703	7.26-	02	7.26-	02	GLOB UNIF	WV 0 2
628	LOAD Z	622 703	7.26	1	7.26	1	GLOB UNIF	WV 0 2
629	LOAD X	622 703	14.51-	1	7.26-	1	GLOB UNIF	WV 0 2
630	LOAD Y	622 703	14.51-	02	7.26-	02	GLOB UNIF	WV 0 2
631	LOAD Z	622 703	14.51	1	7.26	1	GLOB UNIF	WV 0 2
632	LOAD Z	503 625	18.22-	1	2.04-	1	GLOB UNIF	WV 0 2
633	LOAD X	625 706	0.00-	1	21.93-	1	GLOB UNIF	WV 0 2
634	LOAD Y	625 706	0.00-	1	21.93-	1	GLOB UNIF	WV 0 2
635	LOAD Z	625 706	0.00-	02	21.93-	1	GLOB UNIF	WV 0 2
636	LOAD X	506 624	17.03-	1	3.21-	1	GLOB UNIF	WV 0 2
637	LOAD X	624 701	0.00-	02	7.31-	02	GLOB UNIF	WV 0 2

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LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

LINE NO.													
638	LOAD	Y	624	701	0.00-	1	7.31-	1	GLOB	UNIF	WV	0	2
639	LOAD	X	624	701	7.31-	02	7.31-	02	GLOB	UNIF	WV	0	2
640	LOAD	Y	624	701	7.31-	1	7.31-	1	GLOB	UNIF	WV	0	2
641	LOAD	X	624	701	14.62-	02	7.31-	1	GLOB	UNIF	WV	0	2
642	LOAD	Y	624	701	14.62-	1	7.31-	1	GLOB	UNIF	WV	0	2
643	LOAD	Y	701	702	0.00-	1	16.76-	1	GLOB	UNIF	WV	0	2
644	LOAD	Y	702	703	0.00-	1	16.76-	1	GLOB	UNIF	WV	0	2
645	LOAD	Z	705	706	0.00		16.76-	1	GLOB	UNIF	WV	0	2
646	LOAD	X	701	704	0.00-	1	16.75		GLOB	UNIF	WV	0	2
647	LOAD	Z	701	704	0.00		16.75-	1	GLOB	UNIF	WV	0	2
648	LOAD	Z	704	706	0.00-	1	16.76-	1	GLOB	UNIF	WV	0	2
649	LOAD	Z	702	704	12.50		6.25-	1	GLOB	UNIF	WV	0	2
650	LOAD	X	702	705	0.00-	1	16.75-	1	GLOB	UNIF	WV	0	2
651	LOAD	Y	704	705	0.00-	1	16.76-	1	GLOB	UNIF	WV	0	2
652	LOAD	Z	704	705	0.00-	1	16.76		GLOB	UNIF	WV	0	2
653	LOAD	X	701	806	0.00-	1	16.72-	1	GLOB	UNIF	WV	0	2
654	LOAD	Y	701	806	0.00-	1	16.72-	1	GLOB	UNIF	WV	0	2
655	LOAD	Z	701	806	0.00-	1	16.72-	1	GLOB	UNIF	WV	0	2
656	LOAD	X	701	806	16.72-	1	16.72-	1	GLOB	UNIF	WV	0	2
657	LOAD	Y	701	806	16.72-	1	16.72-	1	GLOB	UNIF	WV	0	2
658	LOAD	Z	701	806	16.72-	1	16.72-	1	GLOB	UNIF	WV	0	2
659	LOAD	X	701	806	33.44-	1	16.72-	1	GLOB	UNIF	WV	0	2
660	LOAD	Y	701	806	33.44-	1	16.72-	1	GLOB	UNIF	WV	0	2
661	LOAD	Z	701	806	33.44-	1	16.72-	1	GLOB	UNIF	WV	0	2
662	LOAD	Y	703	801	0.00-	02	16.72-	1	GLOB	UNIF	WV	0	2
663	LOAD	Y	703	801	16.72-	1	16.72-	1	GLOB	UNIF	WV	0	2
664	LOAD	Y	703	801	33.44-	1	16.72-	1	GLOB	UNIF	WV	0	2
665	LOAD	Z	706	803	16.72		16.72	1	GLOB	UNIF	WV	0	2
666	LOAD	Z	706	803	33.44	1	16.72	1	GLOB	UNIF	WV	0	2
667	LOAD	Y	801	903	0.00-	1	19.87-	1	GLOB	UNIF	WV	0	2
668	LOAD	Y	801	903	19.87-	1	19.87-	1	GLOB	UNIF	WV	0	2
669	LOAD	Y	801	903	39.73-	1	19.87		GLOB	UNIF	WV	0	2
670	LOAD	X	806	901	0.00-	1	19.87-	1	GLOB	UNIF	WV	0	2
671	LOAD	X	806	901	19.87-	1	19.87-	1	GLOB	UNIF	WV	0	2
672	LOAD	X	806	901	39.74-	1	19.87		GLOB	UNIF	WV	0	2
673	LOAD	Y	1001	1002	0.00-	1	16.02		GLOB	UNIF	WV	0	2
674	LOAD	X	601	621	5.33-	04	1.38-	03	GLOB	UNIF	WV	0	2
675	LOAD	Y	601	621	5.33-	06	1.38-	06	GLOB	UNIF	WV	0	2
676	LOAD	X	603	623	6.70-	03	.01-	03	GLOB	UNIF	WV	0	2
677	LOAD	Y	603	623	6.70-	06	.01-	06	GLOB	UNIF	WV	0	2
678	LOAD	Z	603	623	6.70	03	.01	03	GLOB	UNIF	WV	0	2
679	LOAD	X	606	626	3.86-	04	2.84-	03	GLOB	UNIF	WV	0	2
680	LOAD	Y	606	626	3.86-	06	2.84-	06	GLOB	UNIF	WV	0	2
681	LOAD	Z	606	626	3.86-	03	2.84-	03	GLOB	UNIF	WV	0	2
682	LOAD	X	621	651	0.00-	08	3.04-	07	GLOB	UNIF	WV	0	2
683	LOAD	Y	621	651	0.00-	13	3.04-	12	GLOB	UNIF	WV	0	2
684	LOAD	X	621	651	3.04-	07	3.04-	07	GLOB	UNIF	WV	0	2
685	LOAD	Y	621	651	3.04-	12	3.04-	11	GLOB	UNIF	WV	0	2
686	LOAD	X	623	653	0.00-	05	3.04-	05	GLOB	UNIF	WV	0	2

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                   1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO, 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

  687  LOAD Y  623 653   0.00-   11   3.04-   10                       GLOB UNIF     WV 0 2
  688  LOAD Z  623 653   0.00-   02   3.04-   02                       GLOB UNIF     WV 0 2
  689  LOAD X  623 653   3.04-   05   3.04-   05                       GLOB UNIF     WV 0 2
  690  LOAD Y  623 653   3.04-   10   3.04-   09                       GLOB UNIF     WV 0 2
  691  LOAD Z  623 653   3.04-   02   3.04-    1                       GLOB UNIF     WV 0 2
  692  LOAD X  626 656   0.00-   07   3.04-   06                       GLOB UNIF     WV 0 2
  693  LOAD Y  626 656   0.00-   10   3.04-   10                       GLOB UNIF     WV 0 2
  694  LOAD Z  626 656   0.00    02   3.04    02                       GLOB UNIF     WV 0 2
  695  LOAD X  626 656   3.04-   06   3.04-   06                       GLOB UNIF     WV 0 2
  696  LOAD Y  626 656   3.04-   10   3.04-   09                       GLOB UNIF     WV 0 2
  697  LOAD Z  626 656   3.04    02   3.04     1                       GLOB UNIF     WV 0 2
  698  LOAD X  651 701   0.00-   06   3.55-   06                       GLOB UNIF     WV 0 2
  699  LOAD Y  651 701   0.00-   11   3.55-   11                       GLOB UNIF     WV 0 2
  700  LOAD X  651 701   3.55-   06   3.55-   05                       GLOB UNIF     WV 0 2
  701  LOAD Y  651 701   3.55-   11   3.55-   10                       GLOB UNIF     WV 0 2
  702  LOAD X  656 706   0.00-   06   3.55-   06                       GLOB UNIF     WV 0 2
  703  LOAD Y  656 706   0.00-   11   3.55-   10                       GLOB UNIF     WV 0 2
  704  LOAD Z  656 706   0.00-   02   3.55-   02                       GLOB UNIF     WV 0 2
  705  LOAD X  656 706   3.55-   06   3.55-   05                       GLOB UNIF     WV 0 2
  706  LOAD Y  656 706   3.55-   10   3.55-   09                       GLOB UNIF     WV 0 2
  707  LOAD Z  656 706   3.55-   02   3.55-   02                       GLOB UNIF     WV 0 2
  708  LOAD X  653 703   0.00-   07   3.55-   06                       GLOB UNIF     WV 0 2
  709  LOAD Y  653 703   0.00-   10   3.55-   10                       GLOB UNIF     WV 0 2
  710  LOAD Z  653 703   0.00    02   3.55    02                       GLOB UNIF     WV 0 2
  711  LOAD X  653 703   3.55-   06   3.55-   06                       GLOB UNIF     WV 0 2
  712  LOAD Y  653 703   3.55-   10   3.55-   09                       GLOB UNIF     WV 0 2
  713  LOAD Z  653 703   3.55    02   3.55    02                       GLOB UNIF     WV 0 2
  714  LOAD X  701 801   0.00-   05   9.46-   04                       GLOB UNIF     WV 0 2
  715  LOAD Y  701 801   0.00-   09   9.46-   08                       GLOB UNIF     WV 0 2
  716  LOAD X  701 801   9.46-   04   9.46-   04                       GLOB UNIF     WV 0 2
  717  LOAD Y  701 801   9.46-   08   9.46-   06                       GLOB UNIF     WV 0 2
  718  LOAD X  701 801  18.92-   04   9.46-   03                       GLOB UNIF     WV 0 2
  719  LOAD Y  701 801  18.92-   06   9.46-   05                       GLOB UNIF     WV 0 2
  720  LOAD X  703 803   0.00-   05   9.46-   04                       GLOB UNIF     WV 0 2
  721  LOAD Y  703 803   0.00-   09   9.46-   07                       GLOB UNIF     WV 0 2
  722  LOAD Z  703 803   0.00     1   9.46     1                       GLOB UNIF     WV 0 2
  723  LOAD X  703 803   9.46-   04   9.46-   04                       GLOB UNIF     WV 0 2
  724  LOAD Y  703 803   9.46-   07   9.46-   06                       GLOB UNIF     WV 0 2
  725  LOAD Z  703 803   9.46     1   9.46     1                       GLOB UNIF     WV 0 2
  726  LOAD X  703 803  18.92-   04   9.46-   03                       GLOB UNIF     WV 0 2
  727  LOAD Y  703 803  18.92-   06   9.46-   05                       GLOB UNIF     WV 0 2
  728  LOAD Z  703 803  18.92     1   9.46     1                       GLOB UNIF     WV 0 2
  729  LOAD X  706 806   0.00-   05   9.46-   04                       GLOB UNIF     WV 0 2
  730  LOAD Y  706 806   0.00-   09   9.46-   07                       GLOB UNIF     WV 0 2
  731  LOAD Z  706 806   0.00-    1   9.46-    1                       GLOB UNIF     WV 0 2
  732  LOAD X  706 806   9.46-   04   9.46-   03                       GLOB UNIF     WV 0 2
  733  LOAD Y  706 806   9.46-   07   9.46-   06                       GLOB UNIF     WV 0 2
  734  LOAD Z  706 806   9.46-    1   9.46-    1                       GLOB UNIF     WV 0 2
  735  LOAD X  706 806  18.92-   03   9.46-   03                       GLOB UNIF     WV 0 2
```

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

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                  1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

   736   LOAD Y  706 806    18.92-    06   9.46-    05               GLOB UNIF    WV 0 2
   737   LOAD Z  706 806    18.92-     1   9.46-     1               GLOB UNIF    WV 0 2
   738   LOAD X  801 901     0.00-    03  10.81-    02               GLOB UNIF    WV 0 2
   739   LOAD Y  801 901     0.00-    05  10.81-    04               GLOB UNIF    WV 0 2
   740   LOAD X  801 901    10.81-    02  10.81-    02               GLOB UNIF    WV 0 2
   741   LOAD Y  801 901    10.81-    04  10.81-    04               GLOB UNIF    WV 0 2
   742   LOAD X  801 901    21.63-    02  10.81-    02               GLOB UNIF    WV 0 2
   743   LOAD Y  801 901    21.63-    04  10.81-    03               GLOB UNIF    WV 0 2
   744   LOAD X  803 903     0.00-    03  10.81-    02               GLOB UNIF    WV 0 2
   745   LOAD Y  803 903     0.00-    05  10.81-    04               GLOB UNIF    WV 0 2
   746   LOAD Z  803 903     0.00      1  10.81      1               GLOB UNIF    WV 0 2
   747   LOAD X  803 903    10.81     02  10.81-    02               GLOB UNIF    WV 0 2
   748   LOAD Y  803 903    10.81-    04  10.81-    03               GLOB UNIF    WV 0 2
   749   LOAD Z  803 903    10.81      1  10.81                      GLOB UNIF    WV 0 2
   750   LOAD X  803 903    21.63-    02  10.81-    02               GLOB UNIF    WV 0 2
   751   LOAD Y  803 903    21.63-    03  10.81-    02               GLOB UNIF    WV 0 2
   752   LOAD X  806 906     0.00-    03  10.81-    02               GLOB UNIF    WV 0 2
   753   LOAD Y  806 906     0.00-    05  10.81-    04               GLOB UNIF    WV 0 2
   754   LOAD Z  806 906     0.00-     1  10.81-     1               GLOB UNIF    WV 0 2
   755   LOAD X  806 906    10.81-    02  10.81-    02               GLOB UNIF    WV 0 2
   756   LOAD Y  806 906    10.81-    04  10.81-    03               GLOB UNIF    WV 0 2
   757   LOAD Z  806 906    10.81-     1  10.81-     1               GLOB UNIF    WV 0 2
   758   LOAD X  806 906    21.63-    02  10.81-    02               GLOB UNIF    WV 0 2
   759   LOAD Y  806 906    21.63-    03  10.81-    03               GLOB UNIF    WV 0 2
   760   LOAD Z  806 906    21.63-     1  10.81                      GLOB UNIF    WV 0 2
   761   LOAD X  9011001     0.00-    02  10.81-    02               GLOB UNIF    WV 0 2
   762   LOAD Y  9011001     0.00-    03  10.81-    03               GLOB UNIF    WV 0 2
   763   LOAD X  9011001    10.81-    02  10.81-     1               GLOB UNIF    WV 0 2
   764   LOAD Y  9011001    10.81-    03  10.81-    03               GLOB UNIF    WV 0 2
   765   LOAD X  9011001    21.63-     1  10.81-     1               GLOB UNIF    WV 0 2
   766   LOAD Y  9011001    21.63-    03  10.81-    03               GLOB UNIF    WV 0 2
   767   LOAD X  9031003     0.00-    02  10.81-     1               GLOB UNIF    WV 0 2
   768   LOAD Y  9031003     0.00-    02  10.81-    02               GLOB UNIF    WV 0 2
   769   LOAD X  9031003    10.81-     1  10.81-     1               GLOB UNIF    WV 0 2
   770   LOAD Y  9031003    10.81-    02  10.81-    02               GLOB UNIF    WV 0 2
   771   LOAD X  9031003    21.63-     1  10.81-     1               GLOB UNIF    WV 0 2
   772   LOAD Y  9031003    21.63-    02  10.81-    02               GLOB UNIF    WV 0 2
   773   LOAD X  9061006     0.00-    02  10.81-     1               GLOB UNIF    WV 0 2
   774   LOAD Y  9061006     0.00-    03  10.81-    02               GLOB UNIF    WV 0 2
   775   LOAD X  9061006    10.81-     1  10.81-     1               GLOB UNIF    WV 0 2
   776   LOAD Y  9061006    10.81-    02  10.81-    02               GLOB UNIF    WV 0 2
   777   LOAD X  9061006    21.63-     1  10.81-     1               GLOB UNIF    WV 0 2
   778   LOAD Y  9061006    21.63-    02  10.81-    02               GLOB UNIF    WV 0-2
   779   LOADCN    3
   780   LOAD X  513 651     3.71     09   4.76     08               GLOB UNIF    WV 0 1
   781   LOAD Y  513 651     3.71     16   4.76     14               GLOB UNIF    WV 0 1
   782   LOAD X  513 651     8.47     08   4.76     08               GLOB UNIF    WV 0 1
   783   LOAD Y  513 651     8.47     14   4.76     13               GLOB UNIF    WV 0 1
   784   LOAD X  513 651    13.24     06   4.76     07               GLOB UNIF    WV 0 1
```

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LINE NU. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0
                  1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
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785	LOAD	Y	513	651	13.24	13	4.76	12	GLOB UNIF	WV 0 1
786	LOAD	X	514	653	1.69	11	5.44	09	GLOB UNIF	WV 0 1
787	LOAD	Y	514	653	1.69	16	5.44	16	GLOB UNIF	WV 0 1
788	LOAD	X	514	653	7.13	09	5.44	08	GLOB UNIF	WV 0 1
789	LOAD	Y	514	653	7.13	16	5.44	14	GLOB UNIF	WV 0 1
790	LOAD	X	514	653	12.56	08	5.44	07	GLOB UNIF	WV 0 1
791	LOAD	Y	514	653	12.56	14	5.44	13	GLOB UNIF	WV 0 1
792	LOAD	X	501	611	0.00	02	6.00	02	GLOB UNIF	WV 0 1
793	LOAD	Z	601	611	0.00	1	6.00	1	GLOB UNIF	WV 0 1
794	LOAD	X	603	613	0.00	02	6.00	02	GLOB UNIF	WV 0 1
795	LOAD	X	651	661	0.00	1	5.00	1	GLOB UNIF	WV 0 1
796	LOAD	Z	651	661	0.00	1	5.00	1	GLOB UNIF	WV 0 1
797	LOAD	X	653	663	0.00	1	5.00	1	GLOB UNIF	WV 0 1
798	LOAD	Y	611	612	0.00	04	16.01	04	GLOB UNIF	WV 0 1
799	LOAD	Z	611	612	0.00	02	16.01	1	GLOB UNIF	WV 0 1
800	LOAD	Y	612	613	0.00	04	16.01	04	GLOB UNIF	WV 0 1
801	LOAD	Z	612	613	0.00	1	16.01	1	GLOB UNIF	WV 0 1
802	LOAD	Y	661	662	0.00	07	17.74	07	GLOB UNIF	WV 0 1
803	LOAD	Z	661	662	0.00	1	13.60		GLOB UNIF	WV 0 1
804	LOAD	Y	662	663	0.00	07	17.74	07	GLOB UNIF	WV 0 1
805	LOAD	Z	662	663	0.00		17.74*	1	GLOB UNIF	WV 0 1
806	LOAD	X	611	661	0.00	06	4.04	06	GLOB UNIF	WV 0 1
807	LOAD	Y	611	661	0.00	11	4.04	10	GLOB UNIF	WV 0 1
808	LOAD	Z	611	661	0.00	1	4.04	1	GLOB UNIF	WV 0 1
809	LOAD	X	611	661	4.04	06	4.04	05	GLOB UNIF	WV 0 1
810	LOAD	Y	611	661	4.04	10	4.04	09	GLOB UNIF	WV 0 1
811	LOAD	Z	611	661	4.04	1	4.04	1	GLOB UNIF	WV 0 1
812	LOAD	X	611	661	8.08	05	4.04	05	GLOB UNIF	WV 0 1
813	LOAD	Y	611	661	8.08	09	4.04	08	GLOB UNIF	WV 0 1
814	LOAD	Z	611	661	8.08	1	4.04	1	GLOB UNIF	WV 0 1
815	LOAD	X	612	662	0.00	04	4.00	04	GLOB UNIF	WV 0 1
816	LOAD	Y	612	662	0.00	07	4.00	06	GLOB UNIF	WV 0 1
817	LOAD	X	612	662	4.00	04	4.00	03	GLOB UNIF	WV 0 1
818	LOAD	Y	612	662	4.00	06	4.00	05	GLOB UNIF	WV 0 1
819	LOAD	X	612	662	8.00	03	4.00	03	GLOB UNIF	WV 0 1
820	LOAD	Y	612	662	8.00	05	4.00	05	GLOB UNIF	WV 0 1
821	LOAD	X	613	663	0.00	07	4.04	06	GLOB UNIF	WV 0 1
822	LOAD	Y	613	663	0.00	11	4.04	10	GLOB UNIF	WV 0 1
823	LOAD	Z	613	663	0.00*	1	4.04*	1	GLOB UNIF	WV 0 1
824	LOAD	X	613	663	4.04	06	4.04	06	GLOB UNIF	WV 0 1
825	LOAD	Y	613	663	4.04	10	4.04	09	GLOB UNIF	WV 0 1
826	LOAD	Z	613	663	4.04*	1	4.04*	1	GLOB UNIF	WV 0 1
827	LOAD	X	613	663	8.08	06	4.04	05	GLOB UNIF	WV 0 1
828	LOAD	Y	613	663	8.08	09	4.04	08	GLOB UNIF	WV 0 1
829	LOAD	Z	613	663	8.08*	1	4.04*	1	GLOB UNIF	WV 0 1
830	LOAD	Y	501	622	5.78	06	7.52	05	GLOB UNIF	WV 0 1
831	LOAD	Z	501	622	5.78*	1	7.52*	1	GLOB UNIF	WV 0 1
832	LOAD	X	501	622	13.09		7.52	1	GLOB UNIF	WV 0 1
833	LOAD	Y	501	622	13.09	05	7.52	05	GLOB UNIF	WV 0 1

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                1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0
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LINE NO.										
834	LOAD	Z	501	622	13.09-	1	7.32-	1	GLOB UNIF	WV 0 1
835	LOAD	X	622	703	0.00	02	7.26	02	GLOB UNIF	WV 0 1
836	LOAD	Y	622	703	0.00	08	7.26	08	GLOB UNIF	WV 0 1
837	LOAD	Z	622	703	0.00-	03	7.26-	03	GLOB UNIF	WV 0 1
838	LOAD	X	622	703	7.26	02	7.26	02	GLOB UNIF	WV 0 1
839	LOAD	Y	622	703	7.26	08	7.26	07	GLOB UNIF	WV 0 1
840	LOAD	Z	622	703	7.26-	03	7.26-	03	GLOB UNIF	WV 0 1
841	LOAD	X	622	703	14.51	02	7.26	02	GLOB UNIF	WV 0 1
842	LOAD	Y	622	703	14.51	07	7.26	06	GLOB UNIF	WV 0 1
843	LOAD	Z	622	703	14.51-	03	7.26-	03	GLOB UNIF	WV 0 1
844	LOAD	X	503	625	3.90	02	5.45	02	GLOB UNIF	WV 0 1
845	LOAD	Y	503	625	3.90	03	5.45	03	GLOB UNIF	WV 0 1
846	LOAD	Z	503	625	3.90	05	5.45	05	GLOB UNIF	WV 0 1
847	LOAD	X	503	625	9.35	02	5.45	02	GLOB UNIF	WV 0 1
848	LOAD	Y	503	625	9.35	03	5.45	03	GLOB UNIF	WV 0 1
849	LOAD	Z	503	625	9.35	05	5.45	05	GLOB UNIF	WV 0 1
850	LOAD	X	503	625	14.80	02	5.45	02	GLOB UNIF	WV 0 1
851	LOAD	Y	503	625	14.80	03	5.45	03	GLOB UNIF	WV 0 1
852	LOAD	Z	503	625	14.80	05	5.45	04	GLOB UNIF	WV 0 1
853	LOAD	X	625	706	0.00	03	7.31	03	GLOB UNIF	WV 0 1
854	LOAD	Y	625	706	0.00	04	7.31	04	GLOB UNIF	WV 0 1
855	LOAD	Z	625	706	0.00	07	7.31	06	GLOB UNIF	WV 0 1
856	LOAD	X	625	706	7.31	03	7.31	02	GLOB UNIF	WV 0 1
857	LOAD	Y	625	706	7.31	04	7.31	04	GLOB UNIF	WV 0 1
858	LOAD	Z	625	706	7.31	06	7.31	06	GLOB UNIF	WV 0 1
859	LOAD	X	625	706	14.62	02	7.31	02	GLOB UNIF	WV 0 1
860	LOAD	Y	625	706	14.62	04	7.31	03	GLOB UNIF	WV 0 1
861	LOAD	Z	625	706	14.62	06	7.31	05	GLOB UNIF	WV 0 1
862	LOAD	X	506	624	8.97	04	5.64	04	GLOB UNIF	WV 0 1
863	LOAD	Y	506	624	8.97	03	5.64	03	GLOB UNIF	WV 0 1
864	LOAD	X	506	624	14.60	04	5.64	04	GLOB UNIF	WV 0 1
865	LOAD	Y	506	624	14.60	03	5.64	03	GLOB UNIF	WV 0 1
866	LOAD	X	624	701	0.00	07	7.31	06	GLOB UNIF	WV 0 1
867	LOAD	Y	624	701	0.00	05	7.31	05	GLOB UNIF	WV 0 1
868	LOAD	Z	624	701	0.00-	1	7.31-	1	GLOB UNIF	WV 0 1
869	LOAD	X	624	701	7.31	06	7.31	05	GLOB UNIF	WV 0 1
870	LOAD	Y	624	701	7.31	05	7.31	05	GLOB UNIF	WV 0 1
871	LOAD	Z	624	701	7.31-	1	7.31-	1	GLOB UNIF	WV 0 1
872	LOAD	X	624	701	14.62	05	7.31	05	GLOB UNIF	WV 0 1
873	LOAD	Y	624	701	14.62	05	7.31	05	GLOB UNIF	WV 0 1
874	LOAD	Z	624	701	14.62-	1	7.31-	02	GLOB UNIF	WV 0 1
875	LOAD	Y	701	702	0.00	04	10.76	04	GLOB UNIF	WV 0 1
876	LOAD	Z	701	702	0.00	1	10.76		GLOB UNIF	WV 0 1
877	LOAD	Y	702	705	0.00	04	10.76	04	GLOB UNIF	WV 0 1
878	LOAD	Z	703	705	0.00-	1	9.58		GLOB UNIF	WV 0 1
879	LOAD	Z	705	706	0.00		10.76	1	GLOB UNIF	WV 0 1
880	LOAD	X	701	704	0.00	04	10.75	03	GLOB UNIF	WV 0 1
881	LOAD	Y	701	704	0.00	02	10.75	02	GLOB UNIF	WV 0 1
882	LOAD	Z	701	704	0.00	1	10.75	1	GLOB UNIF	WV 0 1

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                      1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

  883   LOAD X  704 706    0.00     03  18.76    03              GLOB UNIF    WV 0 1
  884   LOAD Y  704 706    0.00     02  18.76    02              GLOB UNIF    WV 0 1
  885   LOAD Z  704 706    0.00      1  18.76    02              GLOB UNIF    WV 0 1
  886   LOAD Z  702 704    9.38          9.38     1              GLOB UNIF    WV 0 1
  887   LOAD X  702 705    0.00     04  18.75    04              GLOB UNIF    WV 0 1
  888   LOAD Y  702 705    0.00     02  18.75    02              GLOB UNIF    WV 0 1
  889   LOAD Z  702 705    0.00         18.75     1              GLOB UNIF    WV 0 1
  890   LOAD Y  704 705    0.00     04  18.76    04              GLOB UNIF    WV 0 1
  891   LOAD Z  704 705    0.00      1  18.76     1              GLOB UNIF    WV 0 1
  892   LOAD X  701 806    0.00     06  16.72    04              GLOB UNIF    WV 0 1
  893   LOAD Y  701 806    0.00     05  16.72    04              GLOB UNIF    WV 0 1
  894   LOAD Z  701 806    0.00     03  16.72    02              GLOB UNIF    WV 0 1
  895   LOAD X  701 806   16.72     04  16.72    04              GLOB UNIF    WV 0 1
  896   LOAD Y  701 806   16.72     04  16.72    03              GLOB UNIF    WV 0 1
  897   LOAD Z  701 806   16.72     02  16.72    02              GLOB UNIF    WV 0 1
  898   LOAD X  701 806   33.44     04  16.72    03              GLOB UNIF    WV 0 1
  899   LOAD Y  701 806   33.44     03  16.72    03              GLOB UNIF    WV 0 1
  900   LOAD Z  701 806   33.44     02  16.72    02              GLOB UNIF    WV 0 1
  901   LOAD X  703 801    0.00      1  16.72     1              GLOB UNIF    WV 0 1
  902   LOAD Y  703 801    0.00     08  16.72    06              GLOB UNIF    WV 0 1
  903   LOAD Z  703 801    0.00      1  16.72     1              GLOB UNIF    WV 0 1
  904   LOAD X  703 801   16.72      1  16.72     1              GLOB UNIF    WV 0 1
  905   LOAD Y  703 801   16.72     06  16.72    05              GLOB UNIF    WV 0 1
  906   LOAD Z  703 801   16.72      1  16.72     1              GLOB UNIF    WV 0 1
  907   LOAD X  703 801   33.44      1  16.72     1              GLOB UNIF    WV 0 1
  908   LOAD Y  703 801   33.44     05  16.72    04              GLOB UNIF    WV 0 1
  909   LOAD Z  703 801   33.44      1  16.72     1              GLOB UNIF    WV 0 1
  910   LOAD X  706 803    0.00      1  16.72     1              GLOB UNIF    WV 0 1
  911   LOAD Y  706 803    0.00     02  16.72    02              GLOB UNIF    WV 0 1
  912   LOAD Z  706 803    0.00-    03  16.72-   03              GLOB UNIF    WV 0 1
  913   LOAD X  706 803   16.72      1  16.72     1              GLOB UNIF    WV 0 1
  914   LOAD Y  706 803   16.72     02  16.72    02              GLOB UNIF    WV 0 1
  915   LOAD Z  706 803   16.72-    03  16.72-   03              GLOB UNIF    WV 0 1
  916   LOAD X  706 803   33.44      1  16.72     1              GLOB UNIF    WV 0 1
  917   LOAD Y  706 803   33.44     02  16.72     1              GLOB UNIF    WV 0 1
  918   LOAD Z  706 803   33.44-    03  16.72-   03              GLOB UNIF    WV 0 1
  919   LOAD Y  801 802    0.00     03  22.79    03              GLOB UNIF    WV 0 1
  920   LOAD Y  802 803    0.00     03  22.79    03              GLOB UNIF    WV 0 1
  921   LOAD Z  802 803    0.00         22.79-    1              GLOB UNIF    WV 0 1
  922   LOAD Z  803 805    0.00-     1  22.79                    GLOB UNIF    WV 0 1
  923   LOAD X  801 804    0.00     02  22.79    02              GLOB UNIF    WV 0 1
  924   LOAD Y  801 804    0.00      1  22.79     1              GLOB UNIF    WV 0 1
  925   LOAD X  804 805    0.00     02  22.80    02              GLOB UNIF    WV 0 1
  926   LOAD Y  804 806    0.00      1  22.80     1              GLOB UNIF    WV 0 1
  927   LOAD Z  804 806    0.00         22.80     1              GLOB UNIF    WV 0 1
  928   LOAD Z  802 804    0.00-     1  22.80                    GLOB UNIF    WV 0 1
  929   LOAD X  802 805    0.00     02  22.80    02              GLOB UNIF    WV 0 1
  930   LOAD Y  802 805    0.00      1  22.80     1              GLOB UNIF    WV 0 1
  931   LOAD Y  804 805    0.00     02  22.80    02              GLOB UNIF    WV 0 1
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LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

932	LOAD	X	801 903	0.00	1	19.87	1	GLOB	UNIF	WV	0 1
933	LOAD	Y	801 903	0.00	04	19.87	03	GLOB	UNIF	WV	0 1
934	LOAD	Z	801 903	0.00-	1	19.87-	1	GLOB	UNIF	WV	0 1
935	LOAD	X	801 903	19.87	1	19.87	1	GLOB	UNIF	WV	0 1
936	LOAD	Y	801 903	19.87	03	19.87	02	GLOB	UNIF	WV	0 1
937	LOAD	Z	801 903	19.87-	1	19.87-	1	GLOB	UNIF	WV	0 1
938	LOAD	X	801 903	39.73	1	19.87	1	GLOB	UNIF	WV	0 1
939	LOAD	Y	801 903	39.73	02	19.87	02	GLOB	UNIF	WV	0 1
940	LOAD	Z	801 903	39.73-	1	19.87-	1	GLOB	UNIF	WV	0 1
941	LOAD	Y	803 906	0.00		19.87	1	GLOB	UNIF	WV	0 1
942	LOAD	Z	803 906	0.00	1	19.87	1	GLOB	UNIF	WV	0 1
943	LOAD	Y	803 906	19.87	1	19.87	1	GLOB	UNIF	WV	0 1
944	LOAD	Z	803 906	19.87	1	19.87	1	GLOB	UNIF	WV	0 1
945	LOAD	Y	803 906	39.73	1	19.87	1	GLOB	UNIF	WV	0 1
946	LOAD	Z	803 906	39.73	1	19.87	1	GLOB	UNIF	WV	0 1
947	LOAD	X	806 901	0.00	03	19.87	02	GLOB	UNIF	WV	0 1
948	LOAD	Y	806 901	0.00	02	19.87	02	GLOB	UNIF	WV	0 1
949	LOAD	Z	806 901	0.00-	1	19.87-	1	GLOB	UNIF	WV	0 1
950	LOAD	X	806 901	19.87	02	19.87	02	GLOB	UNIF	WV	0 1
951	LOAD	Y	806 901	19.87	02	19.87	02	GLOB	UNIF	WV	0 1
952	LOAD	Z	806 901	19.87-	1	19.87-	1	GLOB	UNIF	WV	0 1
953	LOAD	X	806 901	39.74	02	19.87	02	GLOB	UNIF	WV	0 1
954	LOAD	Y	806 901	39.74	02	19.87	02	GLOB	UNIF	WV	0 1
955	LOAD	Z	806 901	39.74-	1	19.87-	1	GLOB	UNIF	WV	0 1
956	LOAD	Y	901 902	0.00	02	27.42	02	GLOB	UNIF	WV	0 1
957	LOAD	Y	902 903	0.00	02	27.42	1	GLOB	UNIF	WV	0 1
958	LOAD	Z	903 905	0.00-	1	13.71		GLOB	UNIF	WV	0 1
959	LOAD	X	901 904	0.00	1	27.41	1	GLOB	UNIF	WV	0 1
960	LOAD	Y	901 904	0.00	1	27.41	1	GLOB	UNIF	WV	0 1
961	LOAD	X	904 906	0.00	1	27.42	1	GLOB	UNIF	WV	0 1
962	LOAD	Y	904 906	0.00	1	27.42	1	GLOB	UNIF	WV	0 1
963	LOAD	X	902 905	0.00	1	27.41	1	GLOB	UNIF	WV	0 1
964	LOAD	Y	902 905	0.00	1	27.41	1	GLOB	UNIF	WV	0 1
965	LOAD	Y	904 905	0.00	1	27.42	1	GLOB	UNIF	WV	0 1
966	LOAD	X	9011002	0.00	1	14.08	1	GLOB	UNIF	WV	0 1
967	LOAD	Y	9011002	0.00	02	14.08	02	GLOB	UNIF	WV	0 1
968	LOAD	Z	9011002	0.00-	1	14.08-	1	GLOB	UNIF	WV	0 1
969	LOAD	X	9011002	14.08	1	14.08		GLOB	UNIF	WV	0 1
970	LOAD	Y	9011002	14.08	02	14.08	1	GLOB	UNIF	WV	0 1
971	LOAD	Z	9011002	14.08-	1	14.08-	1	GLOB	UNIF	WV	0 1
972	LOAD	Y	9011002	28.15	1	14.08	1	GLOB	UNIF	WV	0 1
973	LOAD	Z	9011002	28.15-	1	14.08		GLOB	UNIF	WV	0 1
974	LOAD	Y	9051002	0.00	02	14.08	02	GLOB	UNIF	WV	0 1
975	LOAD	Y	9051002	14.08	02	14.08	1	GLOB	UNIF	WV	0 1
976	LOAD	Y	9051002	28.15	1	14.08	1	GLOB	UNIF	WV	0 1
977	LOAD	Y	9051005	0.00	1	42.23	1	GLOB	UNIF	WV	0 1
978	LOAD	Z	9051005	0.00	1	42.23	1	GLOB	UNIF	WV	0 1
979	LOAD	Y	9061005	0.00	1	14.07	1	GLOB	UNIF	WV	0 1
980	LOAD	Z	9061005	0.00-	1	14.07-	1	GLOB	UNIF	WV	0 1

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                  1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0
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LINE NO.									
981	LOAD	Y	9061005	14.07	1	14.07	1	GLOB UNIF	WV 0 1
982	LOAD	Z	9061005	14.07-	1	14.07-	1	GLOB UNIF	WV 0 1
983	LOAD	Y	9061005	28.15	1	14.07	1	GLOB UNIF	WV 0 1
984	LOAD	Z	9061005	28.15-	1	14.07-	1	GLOB UNIF	WV 0 1
985	LOAD	X	9011004	0.00	1	14.08	1	GLOB UNIF	WV 0 1
986	LOAD	Y	9011004	0.00	1	14.08	1	GLOB UNIF	WV 0 1
987	LOAD	Z	9011004	0.00	1	14.08		GLOB UNIF	WV 0 1
988	LOAD	X	9011004	14.08	1	14.08	1	GLOB UNIF	WV 0 1
989	LOAD	Y	9011004	14.08	1	14.08	1	GLOB UNIF	WV 0 1
990	LOAD	X	9011004	28.15	1	14.08	1	GLOB UNIF	WV 0 1
991	LOAD	Y	9011004	28.15	1	14.08	1	GLOB UNIF	WV 0 1
992	LOAD	X	9061004	0.00	1	14.07	1	GLOB UNIF	WV 0 1
993	LOAD	Y	9061004	0.00	1	14.07	1	GLOB UNIF	WV 0 1
994	LOAD	X	9061004	14.07	1	14.07	1	GLOB UNIF	WV 0 1
995	LOAD	Y	9061004	14.07	1	14.07	1	GLOB UNIF	WV 0 1
996	LOAD	X	9061004	28.15	1	14.07	1	GLOB UNIF	WV 0 1
997	LOAD	Y	9061004	28.15	1	14.07	1	GLOB UNIF	WV 0 1
998	LOAD	Y	10011002	0.00	02	16.02	02	GLOB UNIF	WV 0 1
999	LOAD	Y	10011002	16.02	02	16.02	1	GLOB UNIF	WV 0 1
1000	LOAD	Y	10021003	0.00	1	16.02	1	GLOB UNIF	WV 0 1
1001	LOAD	Y	10021003	16.02	1	16.02	1	GLOB UNIF	WV 0 1
1002	LOAD	X	10011004	0.00	1	32.04	1	GLOB UNIF	WV 0 1
1003	LOAD	Y	10011004	0.00	1	32.04	1	GLOB UNIF	WV 0 1
1004	LOAD	X	10041006	0.00	1	32.04	1	GLOB UNIF	WV 0 1
1005	LOAD	Y	10041006	0.00	1	32.04	1	GLOB UNIF	WV 0 1
1006	LOAD	X	10021005	0.00	1	32.04	1	GLOB UNIF	WV 0 1
1007	LOAD	Y	10041005	0.00	1	32.04	1	GLOB UNIF	WV 0 1
1008	LOAD	X	501 601	3.76	12	2.32	11	GLOB UNIF	WV 0 1
1009	LOAD	Y	501 601	3.76	21	2.32	20	GLOB UNIF	WV 0 1
1010	LOAD	X	503 603	1.94	13	4.14	12	GLOB UNIF	WV 0 1
1011	LOAD	Y	503 603	1.94	22	4.14	20	GLOB UNIF	WV 0 1
1012	LOAD	Z	503 603	1.94-	04	4.14-	03	GLOB UNIF	WV 0 1
1013	LOAD	X	506 606	5.97	11	.12	11	GLOB UNIF	WV 0 1
1014	LOAD	Y	506 606	5.97	18	.12	18	GLOB UNIF	WV 0 1
1015	LOAD	Z	506 606	5.97	03	.12	03	GLOB UNIF	WV 0 1
1016	LOAD	X	601 621	0.00	11	3.35	10	GLOB UNIF	WV 0 1
1017	LOAD	Y	601 621	0.00	20	3.35	19	GLOB UNIF	WV 0 1
1018	LOAD	X	601 621	3.35	10	3.35	10	GLOB UNIF	WV 0 1
1019	LOAD	Y	601 621	3.35	19	3.35	18	GLOB UNIF	WV 0 1
1020	LOAD	X	603 623	0.00	09	3.35	09	GLOB UNIF	WV 0 1
1021	LOAD	Y	603 623	0.00	17	3.35	16	GLOB UNIF	WV 0 1
1022	LOAD	Z	603 623	0.00-	08	3.35-	08	GLOB UNIF	WV 0 1
1023	LOAD	X	603 623	3.35	09	3.35	09	GLOB UNIF	WV 0 1
1024	LOAD	Y	603 623	3.35	16	3.35	15	GLOB UNIF	WV 0 1
1025	LOAD	Z	603 623	3.35-	08	3.35-	08	GLOB UNIF	WV 0 1
1026	LOAD	X	606 626	0.00	11	3.35	11	GLOB UNIF	WV 0 1
1027	LOAD	Y	606 626	0.00	17	3.35	16	GLOB UNIF	WV 0 1
1028	LOAD	Z	606 626	0.00	09	3.35	08	GLOB UNIF	WV 0 1
1029	LOAD	X	606 626	3.35	11	3.35	10	GLOB UNIF	WV 0 1

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                 1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

  1030   LOAD Y  606 626    3.35     16    3.35     15             GLOB UNIF     WV 0 1
  1031   LOAD Z  606 626    3.35     08    3.35     07             GLOB UNIF     WV 0 1
  1032   LOAD X  621 651    0.00     19    3.04     18             GLOB UNIF     WV 0 1
  1033   LOAD Y  621 651    0.00     30    3.04     28             GLOB UNIF     WV 0 1
  1034   LOAD X  621 651    3.04     18    3.04     17             GLOB UNIF     WV 0 1
  1035   LOAD Y  621 651    3.04     28    3.04     26             GLOB UNIF     WV 0 1
  1036   LOAD X  623 653    0.00     15    3.04     14             GLOB UNIF     WV 0 1
  1037   LOAD Y  623 653    0.00     29    3.04     27             GLOB UNIF     WV 0 1
  1038   LOAD Z  623 653    0.00     05    3.04     04             GLOB UNIF     WV 0 1
  1039   LOAD X  623 653    3.04     14    3.04     13             GLOB UNIF     WV 0 1
  1040   LOAD Y  623 653    3.04     27    3.04     25             GLOB UNIF     WV 0 1
  1041   LOAD Z  623 653    3.04     04    3.04     04             GLOB UNIF     WV 0 1
  1042   LOAD X  626 656    0.00     16    6.08     15             GLOB UNIF     WV 0 1
  1043   LOAD Y  626 656    0.00     28    6.08     25             GLOB UNIF     WV 0 1
  1044   LOAD Z  626 656    0.00-    05    6.08-    04             GLOB UNIF     WV 0 1
  1045   LOAD X  651 701    0.00     14    3.55     13             GLOB UNIF     WV 0 1
  1046   LOAD Y  651 701    0.00     28    3.55     26             GLOB UNIF     WV 0 1
  1047   LOAD X  651 701    3.55     13    3.55     13             GLOB UNIF     WV 0 1
  1048   LOAD Y  651 701    3.55     26    3.55     24             GLOB UNIF     WV 0 1
  1049   LOAD X  655 706    0.00     16    3.55     15             GLOB UNIF     WV 0 1
  1050   LOAD Y  656 706    0.00     26    3.55     24             GLOB UNIF     WV 0 1
  1051   LOAD Z  556 706    0.00     04    3.55     04             GLOB UNIF     WV 0 1
  1052   LOAD X  656 706    3.55     15    3.55     14             GLOB UNIF     WV 0 1
  1053   LOAD Y  656 706    3.55     24    3.55     23             GLOB UNIF     WV 0 1
  1054   LOAD Z  656 706    3.55     04    3.55     04             GLOB UNIF     WV 0 1
  1055   LOAD X  653 703    0.00     16    3.55     15             GLOB UNIF     WV 0 1
  1056   LOAD Y  653 703    0.00     26    3.55     24             GLOB UNIF     WV 0 1
  1057   LOAD Z  653 703    0.00-    04    3.55-    04             GLOB UNIF     WV 0 1
  1058   LOAD X  653 703    3.55     15    3.55     14             GLOB UNIF     WV 0 1
  1059   LOAD Y  653 703    3.55     24    3.55     23             GLOB UNIF     WV 0 1
  1060   LOAD Z  653 703    3.55-    04    3.55-    04             GLOB UNIF     WV 0 1
  1061   LOAD X  701 801    0.00     12    9.46     10             GLOB UNIF     WV 0 1
  1062   LOAD Y  701 801    0.00     24    9.46     20             GLOB UNIF     WV 0 1
  1063   LOAD X  701 801    9.46     10    9.46     09             GLOB UNIF     WV 0 1
  1064   LOAD Y  701 801    9.46     20    9.46     17             GLOB UNIF     WV 0 1
  1065   LOAD X  701 801   18.92     09    9.46     07             GLOB UNIF     WV 0 1
  1066   LOAD Y  701 801   18.92     17    9.46     15             GLOB UNIF     WV 0 1
  1067   LOAD X  703 803    0.00     13    9.46     11             GLOB UNIF     WV 0 1
  1068   LOAD Y  703 803    0.00     22    9.46     18             GLOB UNIF     WV 0 1
  1069   LOAD Z  703 803    0.00-    04    9.46-    03             GLOB UNIF     WV 0 1
  1070   LOAD X  703 803    9.46     11    9.46     09             GLOB UNIF     WV 0 1
  1071   LOAD Y  703 803    9.46     18    9.46     15             GLOB UNIF     WV 0 1
  1072   LOAD Z  703 803    9.46-    03    9.46-    03             GLOB UNIF     WV 0 1
  1073   LOAD X  703 803   18.92     09    9.46     08             GLOB UNIF     WV 0 1
  1074   LOAD Y  703 803   18.92     15    9.46     13             GLOB UNIF     WV 0 1
  1075   LOAD Z  703 803   18.92-    03    9.46-    02             GLOB UNIF     WV 0 1
  1076   LOAD X  706 806    0.00     13    9.46     11             GLOB UNIF     WV 0 1
  1077   LOAD Y  706 806    0.00     22    9.46     19             GLOB UNIF     WV 0 1
  1078   LOAD Z  706 806    0.00     04    9.46     03             GLOB UNIF     WV 0 1
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LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

LINE NO.									
1079	LOAD X	706 806	9.46	11	9.46	10	GLOB UNIF	WV 0 1
1080	LOAD Y	706 806	9.46	19	9.46	16	GLOB UNIF	WV 0 1
1081	LOAD Z	706 806	9.46	03	9.46	03	GLOB UNIF	WV 0 1
1082	LOAD X	706 806	18.92	10	9.46	08	GLOB UNIF	WV 0 1
1083	LOAD Y	706 806	18.92	16	9.46	14	GLOB UNIF	WV 0 1
1084	LOAD Z	706 806	18.92	03	9.46	02	GLOB UNIF	WV 0 1
1085	LOAD X	801 901	0.00	07	10.81	06	GLOB UNIF	WV 0 1
1086	LOAD Y	801 901	0.00	15	10.81	12	GLOB UNIF	WV 0 1
1087	LOAD X	801 901	10.81	06	10.81	05	GLOB UNIF	WV 0 1
1088	LOAD Y	801 901	10.81	12	10.81	10	GLOB UNIF	WV 0 1
1089	LOAD X	801 901	21.63	05	10.81	05	GLOB UNIF	WV 0 1
1090	LOAD Y	801 901	21.63	10	10.81	09	GLOB UNIF	WV 0 1
1091	LOAD X	803 903	0.00	08	10.81	06	GLOB UNIF	WV 0 1
1092	LOAD Y	803 903	0.00	13	10.81	10	GLOB UNIF	WV 0 1
1093	LOAD Z	803 903	0.00-	02	10.81-	02	GLOB UNIF	WV 0 1
1094	LOAD X	803 903	10.81	06	10.81	05	GLOB UNIF	WV 0 1
1095	LOAD Y	803 903	10.81	10	10.81	08	GLOB UNIF	WV 0 1
1096	LOAD Z	803 903	10.81-	02	10.81-	1	GLOB UNIF	WV 0 1
1097	LOAD X	803 903	21.63	05	10.81	04	GLOB UNIF	WV 0 1
1098	LOAD Y	803 903	21.63	08	10.81	07	GLOB UNIF	WV 0 1
1099	LOAD Z	803 903	21.63-	1	10.81-	1	GLOB UNIF	WV 0 1
1100	LOAD X	806 906	0.00	08	10.81	07	GLOB UNIF	WV 0 1
1101	LOAD Y	806 906	0.00	14	10.81	12	GLOB UNIF	WV 0 1
1102	LOAD Z	806 906	0.00	02	10.81	02	GLOB UNIF	WV 0 1
1103	LOAD X	806 906	10.81	07	10.81	06	GLOB UNIF	WV 0 1
1104	LOAD Y	806 906	10.81	12	10.81	10	GLOB UNIF	WV 0 1
1105	LOAD Z	806 906	10.81	02	10.81	02	GLOB UNIF	WV 0 1
1106	LOAD X	806 906	21.63	06	10.81	06	GLOB UNIF	WV 0 1
1107	LOAD Y	806 906	21.63	10	10.81	09	GLOB UNIF	WV 0 1
1108	LOAD Z	806 906	21.63	02	10.81	02	GLOB UNIF	WV 0 1
1109	LOAD X	9011001	0.00	05	10.81	04	GLOB UNIF	WV 0 1
1110	LOAD Y	9011001	0.00	09	10.81	08	GLOB UNIF	WV 0 1
1111	LOAD X	9011001	10.81	04	10.81	04	GLOB UNIF	WV 0 1
1112	LOAD Y	9011001	10.81	08	10.81	08	GLOB UNIF	WV 0 1
1113	LOAD X	9011001	21.63	04	10.81	04	GLOB UNIF	WV 0 1
1114	LOAD Y	9011001	21.63	08	10.81	07	GLOB UNIF	WV 0 1
1115	LOAD X	9031003	0.00	04	10.81	03	GLOB UNIF	WV 0 1
1116	LOAD Y	9031003	0.00	07	10.81	06	GLOB UNIF	WV 0 1
1117	LOAD Z	9031003	0.00-	1	10.81-	1	GLOB UNIF	WV 0 1
1118	LOAD X	9031003	10.81	03	10.81	03	GLOB UNIF	WV 0 1
1119	LOAD Y	9031003	10.81	06	10.81	05	GLOB UNIF	WV 0 1
1120	LOAD Z	9031003	10.81-	1	10.81-	1	GLOB UNIF	WV 0 1
1121	LOAD X	9031003	21.63	03	10.81	02	GLOB UNIF	WV 0-1
1122	LOAD Y	9031003	21.63	05	10.81	04	GLOB UNIF	WV 0 1
1123	LOAD Z	9031003	21.63-	1	10.81-	1	GLOB UNIF	WV 0 1
1124	LOAD X	9061006	0.00	06	16.22	05	GLOB UNIF	WV 0 1
1125	LOAD Y	9061006	0.00	09	16.22	08	GLOB UNIF	WV 0 1
1126	LOAD Z	9061006	0.00	02	16.22	1	GLOB UNIF	WV 0 1
1127	LOAD X	9061006	16.22	05	16.22	05	GLOB UNIF	WV 0 1

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                  1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0
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LINE NO.										
1128	LOAD	Y	9061006	16.22	08	16.22	08	GLOB	UNIF	WV 0 1
1129	LOAD	Z	9061006	16.22	1	16.22	1	GLOB	UNIF	WV 0 1
1130	LOADCN		4							
1131	LOAD	X	513 651	10.62-	05	3.69-	05	GLOB	UNIF	WV 0 2
1132	LOAD	Y	513 651	10.62-	09	3.69-	08	GLOB	UNIF	WV 0 2
1133	LOAD	X	513 651	14.31-	05	3.69-	04	GLOB	UNIF	WV 0 2
1134	LOAD	Y	513 651	14.31-	08	3.69-	08	GLOB	UNIF	WV 0 2
1135	LOAD	X	514 653	12.77-	04	5.23-	04	GLOB	UNIF	WV 0 2
1136	LOAD	Y	514 653	12.77-	08	5.23-	07	GLOB	UNIF	WV 0 2
1137	LOAD	Z	651 661	0.00-	02	5.00-	02	GLOB	UNIF	WV 0 2
1138	LOAD	X	653 663	0.00-	1	5.00-	1	GLOB	UNIF	WV 0 2
1139	LOAD	Z	653 663	0.00-	1	5.00-	1	GLOB	UNIF	WV 0 2
1140	LOAD	Y	661 662	0.00-	03	17.74-	03	GLOB	UNIF	WV 0 2
1141	LOAD	Z	661 662	0.00-	03	17.74-	02	GLOB	UNIF	WV 0 2
1142	LOAD	Y	662 663	0.00-	03	17.74-	04	GLOB	UNIF	WV 0 2
1143	LOAD	Z	662 663	0.00-	02	17.74-	02	GLOB	UNIF	WV 0 2
1144	LOAD	X	611 661	5.29-	03	6.64-	02	GLOB	UNIF	WV 0 2
1145	LOAD	Y	611 661	5.29-	05	6.64-	04	GLOB	UNIF	WV 0 2
1146	LOAD	X	612 662	6.25-	1	5.75-	1	GLOB	UNIF	WV 0 2
1147	LOAD	Y	612 662	6.25-	02	5.75-	02	GLOB	UNIF	WV 0 2
1148	LOAD	X	613 663	7.28-	03	4.65-	02	GLOB	UNIF	WV 0 2
1149	LOAD	Y	613 663	7.28-	04	4.65-	04	GLOB	UNIF	WV 0 2
1150	LOAD	X	501 622	19.96	1	.45	1	GLOB	UNIF	WV 0 2
1151	LOAD	Y	501 622	19.96-	02	.45-	02	GLOB	UNIF	WV 0 2
1152	LOAD	Z	501 622	19.96-	1	.45-	1	GLOB	UNIF	WV 0 2
1153	LOAD	X	622 703	0.00	1	7.26		GLOB	UNIF	WV 0 2
1154	LOAD	Y	622 703	0.00-	05	7.26-	04	GLOB	UNIF	WV 0 2
1155	LOAD	Y	622 703	7.26-	04	7.26-	04	GLOB	UNIF	WV 0 2
1156	LOAD	Y	622 703	14.51-	04	7.26-	04	GLOB	UNIF	WV 0 2
1157	LOAD	Z	622 703	14.51		7.26	1	GLOB	UNIF	WV 0 2
1158	LOAD	X	503 625	18.04-	1	2.22-	1	GLOB	UNIF	WV 0 2
1159	LOAD	Y	503 625	18.04-	02	2.22-	02	GLOB	UNIF	WV 0 2
1160	LOAD	Z	503 625	18.04-	03	2.22-	03	GLOB	UNIF	WV 0 2
1161	LOAD	X	625 706	0.00-	02	7.31-	02	GLOB	UNIF	WV 0 2
1162	LOAD	Y	625 706	0.00-	03	7.31-	03	GLOB	UNIF	WV 0 2
1163	LOAD	Z	625 706	0.00-	05	7.31-	04	GLOB	UNIF	WV 0 2
1164	LOAD	X	625 706	7.31-	02	7.31-	1	GLOB	UNIF	WV 0 2
1165	LOAD	Y	625 706	7.31-	03	7.31-	02	GLOB	UNIF	WV 0 2
1166	LOAD	Z	625 706	7.31-	04	7.31-	04	GLOB	UNIF	WV 0 2
1167	LOAD	X	625 706	14.62-	1	7.31-	1	GLOB	UNIF	WV 0 2
1168	LOAD	Y	625 706	14.62-	02	7.31-	02	GLOB	UNIF	WV 0 2
1169	LOAD	Z	625 706	14.62-	04	7.31-	03	GLOB	UNIF	WV 0 2
1170	LOAD	X	506 624	15.76-	02	4.48-	02	GLOB	UNIF	WV 0 2
1171	LOAD	Y	506 624	15.76	1	4.48		GLOB	UNIF	WV 0 2
1172	LOAD	Z	506 624	15.76-	02	4.48-	02	GLOB	UNIF	WV 0 2
1173	LOAD	X	624 701	0.00-	04	7.31-	04	GLOB	UNIF	WV 0 2
1174	LOAD	Y	624 701	0.00		7.31-	1	GLOB	UNIF	WV 0 2
1175	LOAD	Z	624 701	0.00-	03	7.31-	02	GLOB	UNIF	WV 0 2
1176	LOAD	X	624 701	7.31-	04	7.31-	04	GLOB	UNIF	WV 0 2

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                 1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0
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LINE NO.											
1177	LOAD	Y	624	701	7.31-	1	7.31-	1	GLOB UNIF	WV	0 2
1178	LOAD	Z	624	701	7.31-	02	7.31-	1	GLOB UNIF	WV	0 2
1179	LOAD	X	624	701	14.62-	04	7.31-	03	GLOB UNIF	WV	0 2
1180	LOAD	Y	624	701	14.62-	1	7.31-	1	GLOB UNIF	WV	0 2
1181	LOAD	Z	624	701	14.62-	1	7.31-	1	GLOB UNIF	WV	0 2
1182	LOAD	Y	701	702	0.00-	1	16.76-	02	GLOB UNIF	WV	0 2
1183	LOAD	Z	701	702	0.00-	02	16.76-	02	GLOB UNIF	WV	0 2
1184	LOAD	Y	702	703	0.00-	02	16.76-	02	GLOB UNIF	WV	0 2
1185	LOAD	Z	702	703	0.00-	02	16.76-	1	GLOB UNIF	WV	0 2
1186	LOAD	Z	703	705	0.00-	1	16.75-	02	GLOB UNIF	WV	0 2
1187	LOAD	Z	705	706	0.00-	02	16.76-	03	GLOB UNIF	WV	0 2
1188	LOAD	X	701	704	0.00-	1	16.75-	1	GLOB UNIF	WV	0 2
1189	LOAD	Y	701	704	0.00-	1	16.75		GLOB UNIF	WV	0 2
1190	LOAD	Z	701	704	0.00-	02	16.75-	03	GLOB UNIF	WV	0 2
1191	LOAD	X	704	706	0.00-	1	16.76		GLOB UNIF	WV	0 2
1192	LOAD	Z	704	706	0.00-	03	16.76-	03	GLOB UNIF	WV	0 2
1193	LOAD	Z	702	704	0.00-	02	16.75-	03	GLOB UNIF	WV	0 2
1194	LOAD	X	702	705	0.00-	1	16.75-	1	GLOB UNIF	WV	0 2
1195	LOAD	Y	702	705	0.00-	1	16.75-	1	GLOB UNIF	WV	0 2
1196	LOAD	Z	702	705	0.00-	02	16.75-	02	GLOB UNIF	WV	0 2
1197	LOAD	Y	704	705	0.00-	1	16.76-	1	GLOB UNIF	WV	0 2
1198	LOAD	Z	704	705	0.00-	03	16.76-	02	GLOB UNIF	WV	0 2
1199	LOAD	X	701	806	0.00-	02	16.72-	02	GLOB UNIF	WV	0 2
1200	LOAD	Y	701	806	0.00-	03	16.72-	03	GLOB UNIF	WV	0 2
1201	LOAD	Z	701	806	0.00-	03	16.72-	02	GLOB UNIF	WV	0 2
1202	LOAD	X	701	806	16.72-	02	16.72-	1	GLOB UNIF	WV	0 2
1203	LOAD	Y	701	806	16.72-	03	16.72-	02	GLOB UNIF	WV	0 2
1204	LOAD	Z	701	806	16.72-	02	16.72-	02	GLOB UNIF	WV	0 2
1205	LOAD	X	701	806	33.44-	1	16.72-	1	GLOB UNIF	WV	0 2
1206	LOAD	Y	701	806	33.44-	02	16.72-	02	GLOB UNIF	WV	0 2
1207	LOAD	Z	701	806	33.44-	02	16.72-	02	GLOB UNIF	WV	0 2
1208	LOAD	X	703	801	0.00-	1	16.72-	1	GLOB UNIF	WV	0 2
1209	LOAD	Y	703	801	0.00-	04	16.72-	03	GLOB UNIF	WV	0 2
1210	LOAD	Z	703	801	0.00-	02	16.72-	1	GLOB UNIF	WV	0 2
1211	LOAD	X	703	801	16.72-	1	16.72-	1	GLOB UNIF	WV	0 2
1212	LOAD	Y	703	801	16.72-	03	16.72-	03	GLOB UNIF	WV	0 2
1213	LOAD	Z	703	801	16.72-	1	16.72-	1	GLOB UNIF	WV	0 2
1214	LOAD	X	703	801	33.44-	1	16.72-	1	GLOB UNIF	WV	0 2
1215	LOAD	Y	703	801	33.44-	03	16.72-	02	GLOB UNIF	WV	0 2
1216	LOAD	Z	703	801	33.44-	1	16.72-	1	GLOB UNIF	WV	0 2
1217	LOAD	X	706	803	0.00	1	16.72		GLOB UNIF	WV	0 2
1218	LOAD	Y	706	803	0.00	1	16.72		GLOB UNIF	WV	0 2
1219	LOAD	Z	706	803	0.00-	02	16.72		GLOB UNIF	WV	0 2
1220	LOAD	Y	706	803	18.81		14.63-	1	GLOB UNIF	WV	0 2
1221	LOAD	Z	706	803	20.58		12.66	1	GLOB UNIF	WV	0 2
1222	LOAD	Y	706	803	33.44-	1	16.72-	1	GLOB UNIF	WV	0 2
1223	LOAD	Z	706	803	33.44	1	16.72	02	GLOB UNIF	WV	0 2
1224	LOAD	Y	801	802	0.00-	1	22.79-	1	GLOB UNIF	WV	0 2
1225	LOAD	Z	801	802	0.00-	1	22.79		GLOB UNIF	WV	0 2

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                 1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0
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1226	LOAD	Y	802 803	0.00-	1	22.79-	1	GLOB UNIF	WV	0 2
1227	LOAD	Z	803 805	7.60		7.60-	1	GLOB UNIF	WV	0 2
1228	LOAD	Z	803 805	15.19-	1	7.60-	1	GLOB UNIF	WV	0 2
1229	LOAD	Z	805 806	0.00-	1	11.40-	1	GLOB UNIF	WV	0 2
1230	LOAD	Z	805 806	11.40-	1	11.40-	1	GLOB UNIF	WV	0 2
1231	LOAD	X	801 804	0.00-	1	22.79-	1	GLOB UNIF	WV	0 2
1232	LOAD	Y	801 804	0.00-	1	22.79		GLOB UNIF	WV	0 2
1233	LOAD	Z	801 804	0.00-	1	22.79-	1	GLOB UNIF	WV	0 2
1234	LOAD	X	804 806	0.00-	1	22.80-	1	GLOB UNIF	WV	0 2
1235	LOAD	Z	804 806	0.00-	1	22.80-	1	GLOB UNIF	WV	0 2
1236	LOAD	Z	802 804	0.00		11.40-	1	GLOB UNIF	WV	0 2
1237	LOAD	Z	802 804	11.40-	1	11.40-	1	GLOB UNIF	WV	0 2
1238	LOAD	X	802 805	0.00-	1	22.80-	1	GLOB UNIF	WV	0 2
1239	LOAD	Y	802 805	0.00-	1	22.80		GLOB UNIF	WV	0 2
1240	LOAD	Z	802 805	0.00		22.80-	1	GLOB UNIF	WV	0 2
1241	LOAD	Y	804 805	0.00-	1	22.80-	1	GLOB UNIF	WV	0 2
1242	LOAD	Z	804 805	0.00-	1	22.80-	1	GLOB UNIF	WV	0 2
1243	LOAD	Y	801 903	0.00-	02	19.87-	02	GLOB UNIF	WV	0 2
1244	LOAD	Y	801 903	19.87-	02	19.87-	02	GLOB UNIF	WV	0 2
1245	LOAD	Z	801 903	19.87		19.87	1	GLOB UNIF	WV	0 2
1246	LOAD	Y	801 903	39.73-	02	19.87-	02	GLOB UNIF	WV	0 2
1247	LOAD	Z	801 903	39.73	1	19.87	1	GLOB UNIF	WV	0 2
1248	LOAD	Y	803 906	0.00-	1	59.60-	1	GLOB UNIF	WV	0 2
1249	LOAD	Z	803 906	0.00-	1	59.60-	1	GLOB UNIF	WV	0 2
1250	LOAD	X	806 901	0.00-	02	19.87-	02	GLOB UNIF	WV	0 2
1251	LOAD	Y	806 901	0.00		19.87-	1	GLOB UNIF	WV	0 2
1252	LOAD	Z	806 901	0.00-	1	19.87		GLOB UNIF	WV	0 2
1253	LOAD	X	806 901	19.87-	02	19.87-	02	GLOB UNIF	WV	0 2
1254	LOAD	Y	806 901	19.87-	1	19.87-	1	GLOB UNIF	WV	0 2
1255	LOAD	X	806 901	39.74-	02	19.87-	1	GLOB UNIF	WV	0 2
1256	LOAD	Y	806 901	39.74-	1	19.87-	1	GLOB UNIF	WV	0 2
1257	LOAD	Y	901 902	0.00-	1	27.42-	1	GLOB UNIF	WV	0 2
1258	LOAD	Y	902 903	0.00-	1	27.42-	1	GLOB UNIF	WV	0 2
1259	LOAD	X	901 904	0.00-	1	27.41-	1	GLOB UNIF	WV	0 2
1260	LOAD	Y	901 904	0.00-	1	27.41-	1	GLOB UNIF	WV	0 2
1261	LOAD	X	904 906	0.00-	1	27.42-	1	GLOB UNIF	WV	0 2
1262	LOAD	Y	904 906	0.00-	1	27.42		GLOB UNIF	WV	0 2
1263	LOAD	X	902 905	0.00-	1	27.41-	1	GLOB UNIF	WV	0 2
1264	LOAD	Y	904 905	0.00-	1	27.42-	1	GLOB UNIF	WV	0 2
1265	LOAD	Y	9011002	0.00-	1	14.08-	1	GLOB UNIF	WV	0 2
1266	LOAD	Y	9011002	14.08-	1	14.08-	1	GLOB UNIF	WV	0 2
1267	LOAD	Y	9011002	28.15-	1	14.08-	1	GLOB UNIF	WV	0 2
1268	LOAD	Y	9031002	0.00-	1	42.23-	1	GLOB UNIF	WV	0 2
1269	LOAD	Y	9031005	0.00-	1	21.11-	1	GLOB UNIF	WV	0 2
1270	LOAD	Z	9031005	0.00-	1	21.11-	1	GLOB UNIF	WV	0 2
1271	LOAD	Y	9031005	21.11-	1	21.11-	1	GLOB UNIF	WV	0 2
1272	LOAD	Z	9031005	21.11-	1	21.11-	1	GLOB UNIF	WV	0 2
1273	LOAD	Y	9061005	0.00		14.07-	1	GLOB UNIF	WV	0 2
1274	LOAD	Z	9061005	0.00		14.07	1	GLOB UNIF	WV	0 2

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                    1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

    1275  LOAD Y  9061005   14.07-    1  14.07-    1               GLOB UNIF   WV 0 2
    1276  LOAD Z  9061005   14.07     1  14.07     1               GLOB UNIF   WV 0 2
    1277  LOAD Y  9061005   28.15-    1  14.07-    1               GLOB UNIF   WV 0 2
    1278  LOAD Z  9061005   28.15     1  14.07     1               GLOB UNIF   WV 0 2
    1279  LOAD X  9011004    0.00-    1  21.11-    1               GLOB UNIF   WV 0 2
    1280  LOAD Y  9011004    0.00-    1  21.11-    1               GLOB UNIF   WV 0 2
    1281  LOAD X  9011004   21.11-    1  21.11-    1               GLOB UNIF   WV 0 2
    1282  LOAD Y  9011004   21.11-    1  21.11-    1               GLOB UNIF   WV 0 2
    1283  LOAD X  9061004    0.00-    1  14.07-    1               GLOB UNIF   WV 0 2
    1284  LOAD Y  9061004    0.00-    1  14.07-    1               GLOB UNIF   WV 0 2
    1285  LOAD X  9061004   14.07-    1  14.07-    1               GLOB UNIF   WV 0 2
    1286  LOAD Y  9061004   14.07-    1  14.07-    1               GLOB UNIF   WV 0 2
    1287  LOAD X  9061004   28.15-    1  14.07-    1               GLOB UNIF   WV 0 2
    1288  LOAD Y  9061004   28.15-    1  14.07-    1               GLOB UNIF   WV 0 2
    1289  LOAD Y 10011002    0.00-   02  32.04-   02               GLOB UNIF   WV 0 2
    1290  LOAD Y 10021003    0.00-   02  32.04-   02               GLOB UNIF   WV 0 2
    1291  LOAD X 10011004    0.00-    1  32.04-    1               GLOB UNIF   WV 0 2
    1292  LOAD Y 10011004    0.00-    1  32.04-    1               GLOB UNIF   WV 0 2
    1293  LOAD X 10041006    0.00-    1  32.04-    1               GLOB UNIF   WV 0 2
    1294  LOAD Y 10041006    0.00-    1  32.04-    1               GLOB UNIF   WV 0 2
    1295  LOAD X 10021005    0.00-    1  32.04-    1               GLOB UNIF   WV 0 2
    1296  LOAD Y 10041005    0.00-    1  32.04-    1               GLOB UNIF   WV 0 2
    1297  LOAD X   601 621    5.16-   08   1.55-   07               GLOB UNIF   WV 0 2
    1298  LOAD Y   601 621    5.16-   11   1.55-   11               GLOB UNIF   WV 0 2
    1299  LOAD Z   601 621    5.16-    1   1.55                     GLOB UNIF   WV 0 2
    1300  LOAD X   606 626    2.57-   07   4.14-   06               GLOB UNIF   WV 0 2
    1301  LOAD Y   606 626    2.57-   11   4.14-   11               GLOB UNIF   WV 0 2
    1302  LOAD Z   606 626    2.57-   06   4.14-   05               GLOB UNIF   WV 0 2
    1303  LOAD X   621 651    0.00-   14   6.08-   13               GLOB UNIF   WV 0 2
    1304  LOAD Y   621 651    0.00-   24   6.08-   22               GLOB UNIF   WV 0 2
    1305  LOAD X   623 653     .86-   11   5.22-   10               GLOB UNIF   WV 0 2
    1306  LOAD Y   623 653     .86-   21   5.22-   20               GLOB UNIF   WV 0 2
    1307  LOAD Z   623 653     .86-   03   5.22-   03               GLOB UNIF   WV 0 2
    1308  LOAD X   626 656    0.00-   12   3.04-   12               GLOB UNIF   WV 0 2
    1309  LOAD Y   626 656    0.00-   19   3.04-   18               GLOB UNIF   WV 0 2
    1310  LOAD Z   626 656    0.00    03   3.04    03               GLOB UNIF   WV 0 2
    1311  LOAD X   626 656    3.04-   12   3.04-   11               GLOB UNIF   WV 0 2
    1312  LOAD Y   626 656    3.04-   18   3.04-   17               GLOB UNIF   WV 0 2
    1313  LOAD Z   626 656    3.04    03   3.04    03               GLOB UNIF   WV 0 2
    1314  LOAD X   651 701    0.00-   13   7.10-   11               GLOB UNIF   WV 0 2
    1315  LOAD Y   651 701    0.00-   22   7.10-   20               GLOB UNIF   WV 0 2
    1316  LOAD X   656 706    0.00-   12   7.10-   11               GLOB UNIF   WV 0 2
    1317  LOAD Y   656 706    0.00-   22   7.10-   19               GLOB UNIF   WV 0 2
    1318  LOAD Z   656 706    0.00-   04   7.10-   03               GLOB UNIF   WV 0 2
    1319  LOAD X   653 703    0.00-   13   3.55-   12               GLOB UNIF   WV 0 2
    1320  LOAD Y   653 703    0.00-   21   3.55-   20               GLOB UNIF   WV 0 2
    1321  LOAD Z   653 703    0.00    04   3.55    03               GLOB UNIF   WV 0 2
    1322  LOAD X   653 703    3.55-   12   3.55-   11               GLOB UNIF   WV 0 2
    1323  LOAD Y   653 703    3.55-   20   3.55-   19               GLOB UNIF   WV 0 2
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LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0
(column guide digits above: 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8)

1324	LOAD	Z	653	703	3.55	03	3.55	03	GLOB UNIF	WV 0 2
1325	LOAD	X	701	801	0.00-	11	9.46-	09	GLOB UNIF	WV 0 2
1326	LOAD	Y	701	801	0.00-	19	9.46-	17	GLOB UNIF	WV 0 2
1327	LOAD	X	701	801	9.46-	09	9.46-	08	GLOB UNIF	WV 0 2
1328	LOAD	Y	701	801	9.46-	17	9.46-	15	GLOB UNIF	WV 0 2
1329	LOAD	X	701	801	18.92-	08	9.46-	07	GLOB UNIF	WV 0 2
1330	LOAD	Y	701	801	18.92-	15	9.46-	13	GLOB UNIF	WV 0 2
1331	LOAD	X	703	803	0.00-	11	9.46-	09	GLOB UNIF	WV 0 2
1332	LOAD	Y	703	803	0.00-	18	9.46-	16	GLOB UNIF	WV 0 2
1333	LOAD	Z	703	803	0.00	03	9.46	03	GLOB UNIF	WV 0 2
1334	LOAD	X	703	803	9.46-	09	9.46-	08	GLOB UNIF	WV 0 2
1335	LOAD	Y	703	803	9.46-	16	9.46-	14	GLOB UNIF	WV 0 2
1336	LOAD	Z	703	803	9.46	03	9.46	02	GLOB UNIF	WV 0 2
1337	LOAD	X	703	803	18.92-	08	9.46-	07	GLOB UNIF	WV 0 2
1338	LOAD	Y	703	803	18.92-	14	9.46-	12	GLOB UNIF	WV 0 2
1339	LOAD	Z	703	803	18.92	02	9.46	02	GLOB UNIF	WV 0 2
1340	LOAD	X	706	806	0.00-	10	9.46-	09	GLOB UNIF	WV 0 2
1341	LOAD	Y	706	806	0.00-	19	9.46-	16	GLOB UNIF	WV 0 2
1342	LOAD	Z	706	806	0.00-	03	9.46-	03	GLOB UNIF	WV 0 2
1343	LOAD	X	706	806	9.46-	09	9.46-	08	GLOB UNIF	WV 0 2
1344	LOAD	Y	706	806	9.46-	16	9.46-	14	GLOB UNIF	WV 0 2
1345	LOAD	Z	706	806	9.46-	03	9.46-	02	GLOB UNIF	WV 0 2
1346	LOAD	X	706	806	18.92-	08	9.46-	07	GLOB UNIF	WV 0 2
1347	LOAD	Y	706	806	18.92-	14	9.46-	12	GLOB UNIF	WV 0 2
1348	LOAD	Z	706	806	18.92-	02	9.46-	02	GLOB UNIF	WV 0 2
1349	LOAD	X	801	901	0.00-	07	10.81-	06	GLOB UNIF	WV 0 2
1350	LOAD	Y	801	901	0.00-	13	10.81-	11	GLOB UNIF	WV 0 2
1351	LOAD	X	801	901	10.81-	06	10.81-	06	GLOB UNIF	WV 0 2
1352	LOAD	Y	801	901	10.81-	11	10.81-	10	GLOB UNIF	WV 0 2
1353	LOAD	X	801	901	21.63-	06	10.81-	05	GLOB UNIF	WV 0 2
1354	LOAD	Y	801	901	21.63-	10	10.81-	09	GLOB UNIF	WV 0 2
1355	LOAD	X	803	903	0.00-	07	10.81-	06	GLOB UNIF	WV 0 2
1356	LOAD	Y	803	903	0.00-	12	10.81-	10	GLOB UNIF	WV 0 2
1357	LOAD	Z	803	903	0.00	02	10.81	02	GLOB UNIF	WV 0 2
1358	LOAD	X	803	903	10.81-	06	10.81-	05	GLOB UNIF	WV 0 2
1359	LOAD	Y	803	903	10.81-	10	10.81-	09	GLOB UNIF	WV 0 2
1360	LOAD	Z	803	903	10.81	02	10.81	1	GLOB UNIF	WV 0 2
1361	LOAD	X	803	903	21.63-	05	10.81-	05	GLOB UNIF	WV 0 2
1362	LOAD	Y	803	903	21.63-	09	10.81-	08	GLOB UNIF	WV 0 2
1363	LOAD	Z	803	903	21.63	1	10.81	1	GLOB UNIF	WV 0 2
1364	LOAD	X	806	906	0.00-	07	10.81-	06	GLOB UNIF	WV 0 2
1365	LOAD	Y	806	906	0.00-	12	10.81-	10	GLOB UNIF	WV 0 2
1366	LOAD	Z	806	906	0.00-	02	10.81-	02	GLOB UNIF	WV 0 2
1367	LOAD	X	806	906	10.81-	06	10.81-	05	GLOB UNIF	WV 0 2
1368	LOAD	Y	806	906	10.81-	10	10.81-	09	GLOB UNIF	WV 0 2
1369	LOAD	Z	806	906	10.81-	02	10.81-	1	GLOB UNIF	WV 0 2
1370	LOAD	X	806	906	21.63-	05	10.81-	05	GLOB UNIF	WV 0 2
1371	LOAD	Y	806	906	21.63-	09	10.81-	08	GLOB UNIF	WV 0 2
1372	LOAD	Z	806	906	21.63-	1	10.81-	1	GLOB UNIF	WV 0 2

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                1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

  1373  LOAD X  9011001    0.00-   05  16.22-    05              GLOB UNIF    WV 0 2
  1374  LOAD Y  9011001    0.00-   09  16.22-    08              GLOB UNIF    WV 0 2
  1375  LOAD X  9011001   16.22-   05  16.22-    05              GLOB UNIF    WV 0 2
  1376  LOAD Y  9011001   16.22-   08  16.22-    08              GLOB UNIF    WV 0 2
  1377  LOAD X  9031003    0.00-   05  16.22-    04              GLOB UNIF    WV 0 2
  1378  LOAD Y  9031003    0.00-   08  16.22-    07              GLOB UNIF    WV 0 2
  1379  LOAD Z  9031003    0.00     1  16.22      1              GLOB UNIF    WV 0 2
  1380  LOAD X  9031003   16.22-   04  16.22-    04              GLOB UNIF    WV 0 2
  1381  LOAD Y  9031003   16.22-   07  16.22-    07              GLOB UNIF    WV 0 2
  1382  LOAD Z  9031003   16.22     1  16.22      1              GLOB UNIF    WV 0 2
  1383  LOAD X  9061006    0.00-   05  16.22-    04              GLOB UNIF    WV 0 2
  1384  LOAD Y  9061006    0.00-   08  16.22-    07              GLOB UNIF    WV 0 2
  1385  LOAD Z  9061006    0.00-    1  16.22-     1              GLOB UNIF    WV 0 2
  1386  LOAD X  9061006   16.22-   04  16.22-    04              GLOB UNIF    WV 0 2
  1387  LOAD Y  9061006   16.22-   07  16.22-    07              GLOB UNIF    WV 0 2
  1388  LOAD Z  9061006   16.22-    1  16.22-     1              GLOB UNIF    WV 0 2
  1389  LOADCN   5
  1390  LOAD X  501 403   37.85    07   2.81     07              GLOB UNIF    WV 0 1
  1391  LOAD Y  501 403   37.85    22   2.81     21              GLOB UNIF    WV 0 1
  1392  LOAD Z  501 403   37.85-   07   2.81-    07              GLOB UNIF    WV 0 1
  1393  LOAD Y  501 502    0.00    12  15.15     13              GLOB UNIF    WV 0 1
  1394  LOAD Z  501 502    0.00    02  15.15      1              GLOB UNIF    WV 0 1
  1395  LOAD Y  502 503    0.00    13  15.15     13              GLOB UNIF    WV 0 1
  1396  LOAD Z  502 503    0.00     1  12.82                     GLOB UNIF    WV 0 1
  1397  LOAD Z  503 505    0.00-   02   5.05-    02              GLOB UNIF    WV 0 1
  1398  LOAD Z  503 505    5.05-   02   5.05-     1              GLOB UNIF    WV 0 1
  1399  LOAD Z  503 505   10.10-    1   5.05                     GLOB UNIF    WV 0 1
  1400  LOAD Z  505 506    5.05         5.05      1              GLOB UNIF    WV 0 1
  1401  LOAD Z  505 506   10.10     1   5.05     02              GLOB UNIF    WV 0 1
  1402  LOAD X  501 504    0.00    11  15.15     10              GLOB UNIF    WV 0 1
  1403  LOAD Y  501 504    0.00    06  15.15     06              GLOB UNIF    WV 0 1
  1404  LOAD Z  501 504    0.00    02  15.15     03              GLOB UNIF    WV 0 1
  1405  LOAD X  504 506    0.00    10  15.15     10              GLOB UNIF    WV 0 1
  1406  LOAD Y  504 506    0.00    06  15.15     06              GLOB UNIF    WV 0 1
  1407  LOAD Z  504 506    0.00    03  15.15     05              GLOB UNIF    WV 0 1
  1408  LOAD Z  502 504    0.00-    1   5.05                     GLOB UNIF    WV 0 1
  1409  LOAD Z  502 504   10.10         5.05      1              GLOB UNIF    WV 0 1
  1410  LOAD X  502 505    0.00    08  15.15     08              GLOB UNIF    WV 0 1
  1411  LOAD Y  502 505    0.00    05  15.15     05              GLOB UNIF    WV 0 1
  1412  LOAD Z  502 505    0.00     1  15.15     02              GLOB UNIF    WV 0 1
  1413  LOAD Y  504 505    0.00    09  15.16     10              GLOB UNIF    WV 0 1
  1414  LOAD Z  504 505    0.00    03  15.16     02              GLOB UNIF    WV 0 1
  1415  LOAD X  501 513    0.00    06   2.99     06              GLOB UNIF    WV 0 1
  1416  LOAD Y  501 513    0.00    10   2.99     10              GLOB UNIF    WV 0 1
  1417  LOAD Z  501 513    0.00    03   2.99     03              GLOB UNIF    WV 0 1
  1418  LOAD X  503 514    0.00-   02   2.99-    02              GLOB UNIF    WV 0 1
  1419  LOAD Y  503 514    0.00    03   2.99     03              GLOB UNIF    WV 0 1
  1420  LOAD Z  503 514    0.00         2.99-     1              GLOB UNIF    WV 0 1
  1421  LOAD X  513 651    0.00    21   6.00     19              GLOB UNIF    WV 0 1
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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

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         1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0
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LINE NO.													
1422	LOAD	Y	513	651	0.00	36	6.00	32	GLOB	UNIF	WV	0	1
1423	LOAD	X	513	651	6.00	19	6.00	16	GLOB	UNIF	WV	0	1
1424	LOAD	Y	513	651	6.00	32	6.00	28	GLOB	UNIF	WV	0	1
1425	LOAD	X	513	651	12.00	16	6.00	14	GLOB	UNIF	WV	0	1
1426	LOAD	Y	513	651	12.00	28	6.00	25	GLOB	UNIF	WV	0	1
1427	LOAD	X	514	653	0.00	21	6.00	19	GLOB	UNIF	WV	0	1
1428	LOAD	Y	514	653	0.00	37	6.00	33	GLOB	UNIF	WV	0	1
1429	LOAD	X	514	653	6.00	19	6.00	16	GLOB	UNIF	WV	0	1
1430	LOAD	Y	514	653	6.00	35	6.00	28	GLOB	UNIF	WV	0	1
1431	LOAD	X	514	653	12.00	16	6.00	14	GLOB	UNIF	WV	0	1
1432	LOAD	Y	514	653	12.00	28	6.00	25	GLOB	UNIF	WV	0	1
1433	LOAD	X	601	611	0.00	04	6.00	04	GLOB	UNIF	WV	0	1
1434	LOAD	Z	601	611	0.00	1	6.00		GLOB	UNIF	WV	0	1
1435	LOAD	X	603	613	0.00	03	6.00	03	GLOB	UNIF	WV	0	1
1436	LOAD	Z	603	613	0.00-	1	6.00-	1	GLOB	UNIF	WV	0	1
1437	LOAD	X	651	661	0.00	03	5.00	03	GLOB	UNIF	WV	0	1
1438	LOAD	X	653	663	0.00	02	5.00	02	GLOB	UNIF	WV	0	1
1439	LOAD	Z	653	663	0.00-	1	5.00-	1	GLOB	UNIF	WV	0	1
1440	LOAD	Y	611	612	0.00	08	16.01	08	GLOB	UNIF	WV	0	1
1441	LOAD	Z	611	612	0.00	1	16.01		GLOB	UNIF	WV	0	1
1442	LOAD	Y	612	613	0.00	08	16.01	08	GLOB	UNIF	WV	0	1
1443	LOAD	Y	661	662	0.00	15	17.74	14	GLOB	UNIF	WV	0	1
1444	LOAD	Z	661	662	0.00-	1	17.74-	02	GLOB	UNIF	WV	0	1
1445	LOAD	Y	662	663	0.00	14	17.74	14	GLOB	UNIF	WV	0	1
1446	LOAD	Z	662	663	0.00-	02	17.74-	04	GLOB	UNIF	WV	0	1
1447	LOAD	X	611	661	0.00	13	4.04	12	GLOB	UNIF	WV	0	1
1448	LOAD	Y	611	661	0.00	24	4.04	22	GLOB	UNIF	WV	0	1
1449	LOAD	Z	611	661	0.00	02	4.04	02	GLOB	UNIF	WV	0	1
1450	LOAD	X	611	661	4.04	12	4.04	11	GLOB	UNIF	WV	0	1
1451	LOAD	Y	611	661	4.04	22	4.04	20	GLOB	UNIF	WV	0	1
1452	LOAD	Z	611	661	4.04	02	4.04	02	GLOB	UNIF	WV	0	1
1453	LOAD	X	611	661	8.08	11	4.04	10	GLOB	UNIF	WV	0	1
1454	LOAD	Y	611	661	8.08	20	4.04	18	GLOB	UNIF	WV	0	1
1455	LOAD	Z	611	661	8.08	02	4.04	1	GLOB	UNIF	WV	0	1
1456	LOAD	X	612	662	0.00	09	4.00	08	GLOB	UNIF	WV	0	1
1457	LOAD	Y	612	662	0.00	16	4.00	14	GLOB	UNIF	WV	0	1
1458	LOAD	X	612	662	4.00	08	4.00	07	GLOB	UNIF	WV	0	1
1459	LOAD	Y	612	662	4.00	14	4.00	13	GLOB	UNIF	WV	0	1
1460	LOAD	X	612	662	8.00	07	4.00	07	GLOB	UNIF	WV	0	1
1461	LOAD	Y	612	662	8.00	13	4.00	12	GLOB	UNIF	WV	0	1
1462	LOAD	X	613	663	0.00	14	4.04	13	GLOB	UNIF	WV	0	1
1463	LOAD	Y	613	663	0.00	24	4.04	22	GLOB	UNIF	WV	0	1
1464	LOAD	Z	613	663	0.00-	02	4.04-	02	GLOB	UNIF	WV	0	1
1465	LOAD	X	613	663	4.04	13	4.04	12	GLOB	UNIF	WV	0	1
1466	LOAD	Y	613	663	4.04	22	4.04	20	GLOB	UNIF	WV	0	1
1467	LOAD	Z	613	663	4.04-	02	4.04-	02	GLOB	UNIF	WV	0	1
1468	LOAD	X	613	663	8.08	12	4.04	11	GLOB	UNIF	WV	0	1
1469	LOAD	Y	613	663	8.08	20	4.04	18	GLOB	UNIF	WV	0	1
1470	LOAD	Z	613	663	8.08-	02	4.04-	02	GLOB	UNIF	WV	0	1

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LINE NO.										
1471	LOAD X	501	622	0.00	1	10.21	02	GLOB UNIF	WV 0 1	
1472	LOAD Y	501	622	0.00	14	10.21	13	GLOB UNIF	WV 0 1	
1473	LOAD Z	501	622	0.00-	03	10.21-	04	GLOB UNIF	WV 0 1	
1474	LOAD X	501	622	10.21	02	10.21	02	GLOB UNIF	WV 0 1	
1475	LOAD Y	501	622	10.21	13	10.21	11	GLOB UNIF	WV 0 1	
1476	LOAD Z	501	622	10.21-	04	10.21-	04	GLOB UNIF	WV 0 1	
1477	LOAD X	622	703	0.00	04	7.26	04	GLOB UNIF	WV 0 1	
1478	LOAD Y	622	703	0.00	16	7.26	16	GLOB UNIF	WV 0 1	
1479	LOAD Z	622	703	0.00-	07	7.26-	07	GLOB UNIF	WV 0 1	
1480	LOAD X	622	703	7.26	04	7.26	04	GLOB UNIF	WV 0 1	
1481	LOAD Y	622	703	7.26	16	7.26	15	GLOB UNIF	WV 0 1	
1482	LOAD Z	622	703	7.26-	07	7.26-	07	GLOB UNIF	WV 0 1	
1483	LOAD X	622	703	14.51	04	7.26	04	GLOB UNIF	WV 0 1	
1484	LOAD Y	622	703	14.51	15	7.26	13	GLOB UNIF	WV 0 1	
1485	LOAD Z	622	703	14.51-	07	7.26-	07	GLOB UNIF	WV 0 1	
1486	LOAD X	503	625	0.00	03	10.13	03	GLOB UNIF	WV 0 1	
1487	LOAD Y	503	625	0.00	04	10.13	04	GLOB UNIF	WV 0 1	
1488	LOAD Z	503	625	0.00	06	10.13	07	GLOB UNIF	WV 0 1	
1489	LOAD X	503	625	10.13	03	10.13	03	GLOB UNIF	WV 0 1	
1490	LOAD Y	503	625	10.13	04	10.13	04	GLOB UNIF	WV 0 1	
1491	LOAD Z	503	625	10.13	07	10.13	07	GLOB UNIF	WV 0 1	
1492	LOAD X	625	706	0.00	04	7.31	04	GLOB UNIF	WV 0 1	
1493	LOAD Y	625	706	0.00	06	7.31	06	GLOB UNIF	WV 0 1	
1494	LOAD Z	625	706	0.00	10	7.31	10	GLOB UNIF	WV 0 1	
1495	LOAD X	625	706	7.31	04	7.31	04	GLOB UNIF	WV 0 1	
1496	LOAD Y	625	706	7.31	06	7.31	06	GLOB UNIF	WV 0 1	
1497	LOAD Z	625	706	7.31	10	7.31	09	GLOB UNIF	WV 0 1	
1498	LOAD X	625	706	14.62	04	7.31	04	GLOB UNIF	WV 0 1	
1499	LOAD Y	625	706	14.62	06	7.31	05	GLOB UNIF	WV 0 1	
1500	LOAD Z	625	706	14.62	09	7.31	09	GLOB UNIF	WV 0 1	
1501	LOAD X	506	624	0.00	11	10.12	10	GLOB UNIF	WV 0 1	
1502	LOAD Y	506	624	0.00	08	10.12	08	GLOB UNIF	WV 0 1	
1503	LOAD Z	506	624	0.00		10.12-	1	GLOB UNIF	WV 0 1	
1504	LOAD X	506	624	10.12	10	10.12	09	GLOB UNIF	WV 0 1	
1505	LOAD Y	506	624	10.12	08	10.12	07	GLOB UNIF	WV 0 1	
1506	LOAD Z	506	624	10.12-	1	10.12-	1	GLOB UNIF	WV 0 1	
1507	LOAD X	624	701	0.00	14	10.97	12	GLOB UNIF	WV 0 1	
1508	LOAD Y	624	701	0.00	13	10.97	12	GLOB UNIF	WV 0 1	
1509	LOAD Z	624	701	0.00-	04	10.97-	04	GLOB UNIF	WV 0 1	
1510	LOAD X	624	701	10.97	12	10.97	10	GLOB UNIF	WV 0 1	
1511	LOAD Y	624	701	10.97	12	10.97	11	GLOB UNIF	WV 0 1	
1512	LOAD Z	624	701	10.97-	04	10.97-	04	GLOB UNIF	WV 0 1	
1513	LOAD Y	701	702	0.00	09	18.76	09	GLOB UNIF	WV 0 1	
1514	LOAD Z	701	702	7.50		11.26-	1	GLOB UNIF	WV 0 1	
1515	LOAD Y	702	703	0.00	09	18.76	09	GLOB UNIF	WV 0 1	
1516	LOAD Z	702	703	0.00-	1	18.76-	02	GLOB UNIF	WV 0 1	
1517	LOAD Z	703	705	0.00-	03	9.38-	02	GLOB UNIF	WV 0 1	
1518	LOAD Z	703	705	9.38-	02	9.38-	1	GLOB UNIF	WV 0 1	
1519	LOAD Z	705	706	0.00-	1	9.38-	1	GLOB UNIF	WV 0 1	

STRAN INPUT DATA

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LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

1520	LOAD	Z	705	706	9.38-	1	6.57		GLOB	UNIF	WV	0	1
1521	LOAD	X	701	704	0.00	08	18.75	08	GLOB	UNIF	WV	0	1
1522	LOAD	Y	701	704	0.00	04	18.75	04	GLOB	UNIF	WV	0	1
1523	LOAD	Z	701	704	0.00		18.75	1	GLOB	UNIF	WV	0	1
1524	LOAD	X	704	706	0.00	08	18.76	07	GLOB	UNIF	WV	0	1
1525	LOAD	Y	704	706	0.00	04	18.76	04	GLOB	UNIF	WV	0	1
1526	LOAD	Z	704	706	0.00	1	18.76	02	GLOB	UNIF	WV	0	1
1527	LOAD	Z	702	704	0.00-	02	9.38-	1	GLOB	UNIF	WV	0	1
1528	LOAD	Z	702	704	9.38-	1	9.38-	1	GLOB	UNIF	WV	0	1
1529	LOAD	X	702	705	0.00	08	18.75	08	GLOB	UNIF	WV	0	1
1530	LOAD	Y	702	705	0.00	05	18.75	04	GLOB	UNIF	WV	0	1
1531	LOAD	Z	702	705	0.00-	1	11.25		GLOB	UNIF	WV	0	1
1532	LOAD	Y	704	705	0.00	09	18.76	09	GLOB	UNIF	WV	0	1
1533	LOAD	Z	704	705	0.00	1	18.76		GLOB	UNIF	WV	0	1
1534	LOAD	X	701	806	0.00	12	16.72	10	GLOB	UNIF	WV	0	1
1535	LOAD	Y	701	806	0.00	09	16.72	08	GLOB	UNIF	WV	0	1
1536	LOAD	Z	701	806	0.00	04	16.72	04	GLOB	UNIF	WV	0	1
1537	LOAD	X	701	806	16.72	10	16.72	08	GLOB	UNIF	WV	0	1
1538	LOAD	Y	701	806	16.72	08	16.72	06	GLOB	UNIF	WV	0	1
1539	LOAD	Z	701	806	16.72	04	16.72	03	GLOB	UNIF	WV	0	1
1540	LOAD	X	701	806	33.44	08	16.72	06	GLOB	UNIF	WV	0	1
1541	LOAD	Y	701	806	33.44	06	16.72	05	GLOB	UNIF	WV	0	1
1542	LOAD	Z	701	806	33.44	03	16.72	03	GLOB	UNIF	WV	0	1
1543	LOAD	X	703	801	0.00	1	16.72	1	GLOB	UNIF	WV	0	1
1544	LOAD	Y	703	801	0.00	15	16.72	13	GLOB	UNIF	WV	0	1
1545	LOAD	Z	703	801	0.00	1	16.72	1	GLOB	UNIF	WV	0	1
1546	LOAD	X	703	801	16.72	1	16.72	1	GLOB	UNIF	WV	0	1
1547	LOAD	Y	703	801	16.72	13	16.72	11	GLOB	UNIF	WV	0	1
1548	LOAD	Z	703	801	16.72	1	16.72	1	GLOB	UNIF	WV	0	1
1549	LOAD	X	703	801	33.44	1	16.72	1	GLOB	UNIF	WV	0	1
1550	LOAD	Y	703	801	33.44	11	16.72	09	GLOB	UNIF	WV	0	1
1551	LOAD	Z	703	801	33.44	1	16.72	1	GLOB	UNIF	WV	0	1
1552	LOAD	X	706	803	0.00	02	25.08	02	GLOB	UNIF	WV	0	1
1553	LOAD	Y	706	803	0.00	03	25.08	03	GLOB	UNIF	WV	0	1
1554	LOAD	Z	706	803	0.00-	05	25.08-	05	GLOB	UNIF	WV	0	1
1555	LOAD	X	706	803	25.08	02	25.08	1	GLOB	UNIF	WV	0	1
1556	LOAD	Y	706	803	25.08	03	25.08	03	GLOB	UNIF	WV	0	1
1557	LOAD	Z	706	803	25.08-	05	25.08-	05	GLOB	UNIF	WV	0	1
1558	LOAD	Y	801	802	0.00	05	22.79	05	GLOB	UNIF	WV	0	1
1559	LOAD	Z	801	802	0.00		22.79-	1	GLOB	UNIF	WV	0	1
1560	LOAD	Y	802	803	0.00	05	22.79	05	GLOB	UNIF	WV	0	1
1561	LOAD	Z	802	803	0.00-	1	22.79-	02	GLOB	UNIF	WV	0	1
1562	LOAD	Z	803	805	0.00-	02	22.79-	1	GLOB	UNIF	WV	0	1
1563	LOAD	Z	805	806	0.00-	1	11.40-	1	GLOB	UNIF	WV	0	1
1564	LOAD	Z	805	806	11.40-	1	11.40		GLOB	UNIF	WV	0	1
1565	LOAD	X	801	804	0.00	05	22.79	05	GLOB	UNIF	WV	0	1
1566	LOAD	Y	801	804	0.00	03	22.79	03	GLOB	UNIF	WV	0	1
1567	LOAD	X	804	806	0.00	05	22.80	04	GLOB	UNIF	WV	0	1
1568	LOAD	Y	804	806	0.00	03	22.80	03	GLOB	UNIF	WV	0	1

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LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0
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LINE NO.									
1569	LOAD	Z	804 806	0.00		22.80	1	GLOB UNIF	WV 0 1
1570	LOAD	Z	802 904	0.00-	1	11.40-	1	GLOB UNIF	WV 0 1
1571	LOAD	Z	802 804	11.40-	1	11.40-	1	GLOB UNIF	WV 0 1
1572	LOAD	X	802 805	0.00	04	22.80	04	GLOB UNIF	WV 0 1
1573	LOAD	Y	802 805	0.00	02	22.80	02	GLOB UNIF	WV 0 1
1574	LOAD	Z	802 805	0.00-	1	22.80		GLOB UNIF	WV 0 1
1575	LOAD	Y	804 805	0.00	05	22.80	05	GLOB UNIF	WV 0 1
1576	LOAD	X	801 903	0.00	02	19.87	02	GLOB UNIF	WV 0 1
1577	LOAD	Y	801 903	0.00	06	19.87	06	GLOB UNIF	WV 0 1
1578	LOAD	Z	801 903	0.00-	03	19.87-	03	GLOB UNIF	WV 0 1
1579	LOAD	X	801 903	19.87	02	19.87	1	GLOB UNIF	WV 0 1
1580	LOAD	Y	801 903	19.87	06	19.87	05	GLOB UNIF	WV 0 1
1581	LOAD	Z	801 903	19.87-	03	19.87-	03	GLOB UNIF	WV 0 1
1582	LOAD	X	801 903	39.73	1	19.87	1	GLOB UNIF	WV 0 1
1583	LOAD	Y	801 903	39.73	05	19.87	04	GLOB UNIF	WV 0 1
1584	LOAD	Z	801 903	39.73-	03	19.87-	02	GLOB UNIF	WV 0 1
1585	LOAD	X	803 906	0.00		19.87	1	GLOB UNIF	WV 0 1
1586	LOAD	Y	803 906	0.00		19.87	1	GLOB UNIF	WV 0 1
1587	LOAD	Z	803 906	0.00		19.87	02	GLOB UNIF	WV 0 1
1588	LOAD	X	803 906	19.87	1	19.87	1	GLOB UNIF	WV 0 1
1589	LOAD	Y	803 906	19.87	1	19.87	1	GLOB UNIF	WV 0 1
1590	LOAD	Z	803 906	19.87	02	19.87	02	GLOB UNIF	WV 0 1
1591	LOAD	X	803 906	39.73	1	19.87	1	GLOB UNIF	WV 0 1
1592	LOAD	Y	803 906	39.73	1	19.87	1	GLOB UNIF	WV 0 1
1593	LOAD	Z	803 906	39.73	02	19.87	02	GLOB UNIF	WV 0 1
1594	LOAD	X	806 901	0.00	06	19.87	05	GLOB UNIF	WV 0 1
1595	LOAD	Y	806 901	0.00	05	19.87	05	GLOB UNIF	WV 0 1
1596	LOAD	Z	806 901	0.00-	02	19.87-	02	GLOB UNIF	WV 0 1
1597	LOAD	X	806 901	19.87	05	19.87	04	GLOB UNIF	WV 0 1
1598	LOAD	Y	806 901	19.87	05	19.87	04	GLOB UNIF	WV 0 1
1599	LOAD	Z	806 901	19.87-	02	19.87-	02	GLOB UNIF	WV 0 1
1600	LOAD	X	806 901	39.74	04	19.87	04	GLOB UNIF	WV 0 1
1601	LOAD	Y	806 901	39.74	04	19.87	04	GLOB UNIF	WV 0 1
1602	LOAD	Z	806 901	39.74-	02	19.87-	02	GLOB UNIF	WV 0 1
1603	LOAD	Y	901 902	0.00	04	27.42	04	GLOB UNIF	WV 0 1
1604	LOAD	Z	901 902	0.00		27.42-	1	GLOB UNIF	WV 0 1
1605	LOAD	Y	902 903	0.00	04	27.42	03	GLOB UNIF	WV 0 1
1606	LOAD	Z	902 903	0.00-	1	27.42-	1	GLOB UNIF	WV 0 1
1607	LOAD	Z	903 905	0.00-	1	27.41-	1	GLOB UNIF	WV 0 1
1608	LOAD	Z	905 906	0.00-	1	27.42		GLOB UNIF	WV 0 1
1609	LOAD	X	901 904	0.00	03	27.41	03	GLOB UNIF	WV 0 1
1610	LOAD	Y	901 904	0.00	02	27.41	02	GLOB UNIF	WV 0 1
1611	LOAD	X	904 906	0.00	03	27.42	03	GLOB UNIF	WV 0 1
1612	LOAD	Y	904 906	0.00	02	27.42	02	GLOB UNIF	WV 0 1
1613	LOAD	Z	902 904	0.00-	1	27.41		GLOB UNIF	WV 0 1
1614	LOAD	X	902 905	0.00	03	27.41	03	GLOB UNIF	WV 0 1
1615	LOAD	Y	902 905	0.00	1	27.41	1	GLOB UNIF	WV 0 1
1616	LOAD	Y	904 905	0.00	03	27.42	03	GLOB UNIF	WV 0 1
1617	LOAD	X	9011002	0.00	02	14.08	1	GLOB UNIF	WV 0 1

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LINE NO.	1...5....0....5			2 2 3		3 4		4 5 5 6		6 7 7 8	
1618	LOAD	Y	9011002	0.00	04	14.08	04	GLOB	UNIF	WV 0 1	
1619	LOAD	Z	9011002	0.00-	02	14.08-	1	GLOB	UNIF	WV 0 1	
1620	LOAD	X	9011002	14.08	1	14.08	1	GLOB	UNIF	WV 0 1	
1621	LOAD	Y	9011002	14.08	04	14.08	03	GLOB	UNIF	WV 0 1	
1622	LOAD	Z	9011002	14.08-	1	14.08-	1	GLOB	UNIF	WV 0 1	
1623	LOAD	X	9011002	28.15	1	14.08	1	GLOB	UNIF	WV 0 1	
1624	LOAD	Y	9011002	28.15	03	14.08	03	GLOB	UNIF	WV 0 1	
1625	LOAD	Z	9011002	28.15-	1	14.08-	1	GLOB	UNIF	WV 0 1	
1626	LOAD	X	9031002	0.00	1	14.08	1	GLOB	UNIF	WV 0 1	
1627	LOAD	Y	9031002	0.00	04	14.08	04	GLOB	UNIF	WV 0 1	
1628	LOAD	Z	9031002	0.00		14.[illegible]	1	GLOB	UNIF	WV 0 1	
1629	LOAD	X	9031002	14.08	1	14.08	1	GLOB	UNIF	WV 0 1	
1630	LOAD	Y	9031002	14.[illegible]	04	14.08	04	GLOB	UNIF	WV 0 1	
1631	LOAD	Z	9031002	14.08	1	14.08	1	GLOB	UNIF	WV 0 1	
1632	LOAD	X	9031002	28.15	1	14.08	1	GLOB	UNIF	WV 0 1	
1633	LOAD	Y	9031002	28.15	04	14.08	03	GLOB	UNIF	WV 0 1	
1634	LOAD	Z	9031002	28.15	1	14.08	1	GLOB	UNIF	WV 0 1	
1635	LOAD	X	9031005	0.00	1	14.08	1	GLOB	UNIF	WV 0 1	
1636	LOAD	Y	9031005	0.00	1	14.08	1	GLOB	UNIF	WV 0 1	
1637	LOAD	Z	9031005	0.00	1	14.08	02	GLOB	UNIF	WV 0 1	
1638	LOAD	X	9031005	14.08	1	14.08	1	GLOB	UNIF	WV 0 1	
1639	LOAD	Y	9031005	14.08	1	14.08	02	GLOB	UNIF	WV 0 1	
1640	LOAD	Z	9031005	14.08	02	14.08	02	GLOB	UNIF	WV 0 1	
1641	LOAD	X	9031005	28.15	1	14.08	1	GLOB	UNIF	WV 0 1	
1642	LOAD	Y	9031005	28.15	02	14.08	02	GLOB	UNIF	WV 0 1	
1643	LOAD	Z	9031005	28.15	02	14.08	02	GLOB	UNIF	WV 0 1	
1644	LOAD	X	9061005	0.00	1	14.07	1	GLOB	UNIF	WV 0 1	
1645	LOAD	Y	9061005	0.00	02	14.07	02	GLOB	UNIF	WV 0 1	
1646	LOAD	Z	9061005	0.00-	02	14.07-	02	GLOB	UNIF	WV 0 1	
1647	LOAD	X	9061005	14.07	1	14.07	1	GLOB	UNIF	WV 0 1	
1648	LOAD	Y	9061005	14.07	02	14.07	02	GLOB	UNIF	WV 0 1	
1649	LOAD	Z	9061005	14.07-	02	14.07-	02	GLOB	UNIF	WV 0 1	
1650	LOAD	X	9061005	28.15	1	14.07	1	GLOB	UNIF	WV 0 1	
1651	LOAD	Y	9061005	28.15	02	14.07	02	GLOB	UNIF	WV 0 1	
1652	LOAD	Z	9061005	28.15-	02	14.07-	02	GLOB	UNIF	WV 0 1	
1653	LOAD	X	9011004	0.00	03	14.08	03	GLOB	UNIF	WV 0 1	
1654	LOAD	Y	9011004	0.00	03	14.08	03	GLOB	UNIF	WV 0 1	
1655	LOAD	Z	9011004	0.00	1	14.08	1	GLOB	UNIF	WV 0 1	
1656	LOAD	X	9011004	14.08	03	14.08	03	GLOB	UNIF	WV 0 1	
1657	LOAD	Y	9011004	14.08	03	14.08	03	GLOB	UNIF	WV 0 1	
1658	LOAD	Z	9011004	14.08	1	14.08	1	GLOB	UNIF	WV 0 1	
1659	LOAD	X	9011004	28.15	03	14.08	02	GLOB	UNIF	WV 0 1	
1660	LOAD	Y	9011004	28.15	03	14.08	02	GLOB	UNIF	WV 0 1	
1661	LOAD	Z	9011004	28.15	1	14.08	1	GLOB	UNIF	WV 0 1	
1662	LOAD	X	9061004	0.00	03	14.07	03	GLOB	UNIF	WV 0 1	
1663	LOAD	Y	9061004	0.00	04	14.07	03	GLOB	UNIF	WV 0 1	
1664	LOAD	Z	9061004	0.00-	1	14.07-	1	GLOB	UNIF	WV 0 1	
1665	LOAD	X	9061004	14.07	03	14.07	02	GLOB	UNIF	WV 0 1	
1666	LOAD	Y	9061004	14.07	03	14.07	03	GLOB	UNIF	WV 0 1	

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LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

Line no.	Card	Dir	Joints	Value		Value		Type	Dist		
1667	LOAD	Z	9061004	14.07-	1	14.07-	1	GLOB	UNIF	WV	0 1
1668	LOAD	X	9061004	28.15	02	14.07	02	GLOB	UNIF	WV	0 1
1669	LOAD	Y	9061004	28.15	03	14.07	03	GLOB	UNIF	WV	0 1
1670	LOAD	Z	9061004	28.15-	1	14.07-	1	GLOB	UNIF	WV	0 1
1671	LOAD	Y	10011002	0.00	03	32.04	03	GLOB	UNIF	WV	0 1
1672	LOAD	Y	10021003	0.00	03	16.02	03	GLOB	UNIF	WV	0 1
1673	LOAD	Y	10021003	16.02	03	16.02	03	GLOB	UNIF	WV	0 1
1674	LOAD	X	10011004	0.00	03	32.04	03	GLOB	UNIF	WV	0 1
1675	LOAD	Y	10011004	0.00	02	32.04	02	GLOB	UNIF	WV	0 1
1676	LOAD	X	10041006	0.00	03	32.04	03	GLOB	UNIF	WV	0 1
1677	LOAD	Y	10041006	0.00	02	32.04	02	GLOB	UNIF	WV	0 1
1678	LOAD	X	10021005	0.00	02	32.04	02	GLOB	UNIF	WV	0 1
1679	LOAD	Y	10021005	0.00	1	32.04	1	GLOB	UNIF	WV	0 1
1680	LOAD	Y	10041005	0.00	02	32.04	02	GLOB	UNIF	WV	0 1
1681	LOAD	X	301 401	27.85	17	.65	17	GLOB	UNIF	WV	0 1
1682	LOAD	Y	301 401	27.85	29	.65	29	GLOB	UNIF	WV	0 1
1683	LOAD	X	303 403	26.44	16	2.06	17	GLOB	UNIF	WV	0 1
1684	LOAD	Y	303 403	26.44	32	2.06	30	GLOB	UNIF	WV	0 1
1685	LOAD	X	401 501	0.00	27	4.56	25	GLOB	UNIF	WV	0 1
1686	LOAD	Y	401 501	0.00	49	4.56	45	GLOB	UNIF	WV	0 1
1687	LOAD	X	403 503	0.00	28	4.56	26	GLOB	UNIF	WV	0 1
1688	LOAD	Y	403 503	0.00	48	4.56	44	GLOB	UNIF	WV	0 1
1689	LOAD	Z	403 503	0.00-	08	4.56-	07	GLOB	UNIF	WV	0 1
1690	LOAD	X	406 506	1.51	26	3.05	25	GLOB	UNIF	WV	0 1
1691	LOAD	Y	406 506	1.51	45	3.05	42	GLOB	UNIF	WV	0 1
1692	LOAD	Z	406 506	1.51	07	3.05	07	GLOB	UNIF	WV	0 1
1693	LOAD	X	501 601	0.00	25	3.04	23	GLOB	UNIF	WV	0 1
1694	LOAD	Y	501 601	0.00	45	3.04	42	GLOB	UNIF	WV	0 1
1695	LOAD	X	501 601	3.04	23	3.04	22	GLOB	UNIF	WV	0 1
1696	LOAD	Y	501 601	3.04	42	3.04	40	GLOB	UNIF	WV	0 1
1697	LOAD	X	503 603	0.00	26	3.04	24	GLOB	UNIF	WV	0 1
1698	LOAD	Y	503 603	0.00	44	3.04	41	GLOB	UNIF	WV	0 1
1699	LOAD	Z	503 603	0.00-	07	3.04-	07	GLOB	UNIF	WV	0 1
1700	LOAD	X	503 603	3.04	24	3.04	23	GLOB	UNIF	WV	0 1
1701	LOAD	Y	503 603	3.04	41	3.04	39	GLOB	UNIF	WV	0 1
1702	LOAD	Z	503 603	3.04-	07	3.04-	06	GLOB	UNIF	WV	0 1
1703	LOAD	X	506 606	0.00	25	3.04	23	GLOB	UNIF	WV	0 1
1704	LOAD	Y	506 606	0.00	42	3.04	40	GLOB	UNIF	WV	0 1
1705	LOAD	Z	506 606	0.00	07	3.04	07	GLOB	UNIF	WV	0 1
1706	LOAD	X	506 606	3.04	23	3.04	22	GLOB	UNIF	WV	0 1
1707	LOAD	Y	506 606	3.04	40	3.04	37	GLOB	UNIF	WV	0 1
1708	LOAD	Z	506 606	3.04	07	3.04	06	GLOB	UNIF	WV	0 1
1709	LOAD	X	601 621	0.00	21	3.35	19	GLOB	UNIF	WV	0 1
1710	LOAD	Y	601 621	0.00	41	3.35	38	GLOB	UNIF	WV	0 1
1711	LOAD	Z	601 621	0.00-	1	3.35-	1	GLOB	UNIF	WV	0 1
1712	LOAD	X	601 621	3.35	19	3.35	18	GLOB	UNIF	WV	0 1
1713	LOAD	Y	601 621	3.35	38	3.35	36	GLOB	UNIF	WV	0 1
1714	LOAD	Z	601 621	3.35-	1	3.35-	1	GLOB	UNIF	WV	0 1
1715	LOAD	X	603 623	0.00	19	3.35	18	GLOB	UNIF	WV	0 1

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                  1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

   1716  LOAD Y  603 623   0.00    34   3.35    32            GLOB UNIF      WV 0 1
   1717  LOAD Z  603 623   0.00-   17   3.35-   16            GLOB UNIF      WV 0 1
   1718  LOAD X  603 623   3.35    18   3.35    17            GLOB UNIF      WV 0 1
   1719  LOAD Y  603 623   3.35    32   3.35    30            GLOB UNIF      WV 0 1
   1720  LOAD Z  603 623   3.35-   16   3.35-   [illegible]   GLOB UNIF      WV 0 1
   1721  LOAD X  606 626   0.00    23   3.35    21            GLOB UNIF      WV 0 1
   1722  LOAD Y  606 626   0.00    33   3.35    31            GLOB UNIF      WV 0 1
   1723  LOAD Z  606 626   0.00    16   3.35    15            GLOB UNIF      WV 0 1
   1724  LOAD X  606 626   3.35    21   3.35    20            GLOB UNIF      WV 0 1
   1725  LOAD Y  606 626   3.35    31   3.35    29            GLOB UNIF      WV 0 1
   1726  LOAD Z  606 626   3.35    15   3.35    14            GLOB UNIF      WV 0 1
   1727  LOAD X  621 651   0.00    34   3.04    32            GLOB UNIF      WV 0 1
   1728  LOAD Y  621 651   0.00    53   3.04    49            GLOB UNIF      WV 0 1
   1729  LOAD X  621 651   3.04    32   3.04    30            GLOB UNIF      WV 0 1
   1730  LOAD Y  621 651   3.04    49   3.04    46            GLOB UNIF      WV 0 1
   1731  LOAD X  623 653   0.00    24   3.04    22            GLOB UNIF      WV 0 1
   1732  LOAD Y  623 653   0.00    48   3.04    45            GLOB UNIF      WV 0 1
   1733  LOAD Z  623 653   0.00    07   3.04    07            GLOB UNIF      WV 0 1
   1734  LOAD X  623 653   3.04    22   3.04    21            GLOB UNIF      WV 0 1
   1735  LOAD Y  623 653   3.04    45   3.04    42            GLOB UNIF      WV 0 1
   1736  LOAD Z  623 653   3.04    07   3.04    06            GLOB UNIF      WV 0 1
   1737  LOAD X  626 656   0.00    29   6.08    26            GLOB UNIF      WV 0 1
   1738  LOAD Y  626 656   0.00    50   6.08    45            GLOB UNIF      WV 0 1
   1739  LOAD Z  626 656   0.00-   08   6.08-   08            GLOB UNIF      WV 0 1
   1740  LOAD X  651 701   0.00    25   3.55    23            GLOB UNIF      WV 0 1
   1741  LOAD Y  651 701   0.00    49   3.55    46            GLOB UNIF      WV 0 1
   1742  LOAD X  651 701   3.55    23   3.55    22            GLOB UNIF      WV 0 1
   1743  LOAD Y  651 701   3.55    46   3.55    43            GLOB UNIF      WV 0 1
   1744  LOAD X  656 706   0.00    28   3.55    26            GLOB UNIF      WV 0 1
   1745  LOAD Y  656 706   0.00    47   3.55    43            GLOB UNIF      WV 0 1
   1746  LOAD Z  656 706   0.00    08   3.55    07            GLOB UNIF      WV 0 1
   1747  LOAD X  656 706   3.55    26   3.55    25            GLOB UNIF      WV 0 1
   1748  LOAD Y  656 706   3.55    43   3.55    41            GLOB UNIF      WV 0 1
   1749  LOAD Z  656 706   3.55    07   3.55    07            GLOB UNIF      WV 0 1
   1750  LOAD X  653 703   0.00    28   3.55    26            GLOB UNIF      WV 0 1
   1751  LOAD Y  653 703   0.00    45   3.55    42            GLOB UNIF      WV 0 1
   1752  LOAD Z  653 703   0.00-   08   3.55-   07            GLOB UNIF      WV 0 1
   1753  LOAD X  653 703   3.55    26   3.55    24            GLOB UNIF      WV 0 1
   1754  LOAD Y  653 703   3.55    42   3.55    38            GLOB UNIF      WV 0 1
   1755  LOAD Z  653 703   3.55-   07   3.55-   07            GLOB UNIF      WV 0 1
   1756  LOAD X  701 801   0.00    21   9.46    17            GLOB UNIF      WV 0 1
   1757  LOAD Y  701 801   0.00    42   9.46    35            GLOB UNIF      WV 0 1
   1758  LOAD X  701 801   9.46    17   9.46    14            GLOB UNIF      WV 0 1
   1759  LOAD Y  701 801   9.46    35   9.46    29            GLOB UNIF      WV 0 1
   1760  LOAD X  701 801  18.92    14   9.46    12            GLOB UNIF      WV 0 1
   1761  LOAD Y  701 801  18.92    29   9.46    25            GLOB UNIF      WV 0 1
   1762  LOAD X  703 803   0.00    23   9.46    19            GLOB UNIF      WV 0 1
   1763  LOAD Y  703 803   0.00    36   9.46    30            GLOB UNIF      WV 0 1
   1764  LOAD Z  703 803   0.00-   06   9.46-   05            GLOB UNIF      WV 0 1
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                  1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

   1765  LOAD X  703 803    9.46    19   9.46    16                   GLOB UNIF    WV 0 1
   1766  LOAD Y  703 803    9.46    30   9.46    25                   GLOB UNIF    WV 0 1
   1767  LOAD Z  703 803    9.46-   05   9.46-   04                   GLOB UNIF    WV 0 1
   1768  LOAD X  703 803   18.92    16   9.46    13                   GLOB UNIF    WV 0 1
   1769  LOAD Y  703 803   18.92    25   9.46    20                   GLOB UNIF    WV 0 1
   1770  LOAD Z  703 803   18.92-   04   9.46-   04                   GLOB UNIF    WV 0 1
   1771  LOAD X  706 806    0.00    24   9.46    20                   GLOB UNIF    WV 0 1
   1772  LOAD Y  706 806    0.00    39   9.46    33                   GLOB UNIF    WV 0 1
   1773  LOAD Z  706 806    0.00    07   9.46    05                   GLOB UNIF    WV 0 1
   1774  LOAD X  706 806    9.46    20   9.46    17                   GLOB UNIF    WV 0 1
   1775  LOAD Y  706 806    9.46    33   9.46    28                   GLOB UNIF    WV 0 1
   1776  LOAD Z  706 806    9.46    05   9.46    05                   GLOB UNIF    WV 0 1
   1777  LOAD X  706 806   18.92    17   9.46    15                   GLOB UNIF    WV 0 1
   1778  LOAD Y  706 806   18.92    28   9.46    24                   GLOB UNIF    WV 0 1
   1779  LOAD Z  706 806   18.92    05   9.46    04                   GLOB UNIF    WV 0 1
   1780  LOAD X  801 901    0.00    12  10.81    11                   GLOB UNIF    WV 0 1
   1781  LOAD Y  801 901    0.00    25  10.81    21                   GLOB UNIF    WV 0 1
   1782  LOAD X  801 901   10.81    11  10.81    09                   GLOB UNIF    WV 0 1
   1783  LOAD Y  801 901   10.81    21  10.81    18                   GLOB UNIF    WV 0 1
   1784  LOAD X  801 901   21.63    09  10.81    08                   GLOB UNIF    WV 0 1
   1785  LOAD Y  801 901   21.63    18  10.81    16                   GLOB UNIF    WV 0 1
   1786  LOAD X  803 903    0.00    13  10.81    11                   GLOB UNIF    WV 0 1
   1787  LOAD Y  803 903    0.00    20  10.81    17                   GLOB UNIF    WV 0 1
   1788  LOAD Z  803 903    0.00-   04  10.81-   03                   GLOB UNIF    WV 0 1
   1789  LOAD X  803 903   10.81    11  10.81    09                   GLOB UNIF    WV 0 1
   1790  LOAD Y  803 903   10.81    17  10.81    14                   GLOB UNIF    WV 0 1
   1791  LOAD Z  803 903   10.81-   03  10.81-   02                   GLOB UNIF    WV 0 1
   1792  LOAD X  803 903   21.63    09  10.81    07                   GLOB UNIF    WV 0 1
   1793  LOAD Y  803 903   21.63    14  10.81    11                   GLOB UNIF    WV 0 1
   1794  LOAD Z  803 903   21.63-   02  10.81-   02                   GLOB UNIF    WV 0 1
   1795  LOAD X  806 906    0.00    15  10.81    13                   GLOB UNIF    WV 0 1
   1796  LOAD Y  806 906    0.00    24  10.81    21                   GLOB UNIF    WV 0 1
   1797  LOAD Z  806 906    0.00    04  10.81    03                   GLOB UNIF    WV 0 1
   1798  LOAD X  806 906   10.81    13  10.81    11                   GLOB UNIF    WV 0 1
   1799  LOAD Y  806 906   10.81    21  10.81    19                   GLOB UNIF    WV 0 1
   1800  LOAD Z  806 906   10.81    03  10.81    03                   GLOB UNIF    WV 0 1
   1801  LOAD X  806 906   21.63    11  10.81    10                   GLOB UNIF    WV 0 1
   1802  LOAD Y  806 906   21.63    19  10.81    17                   GLOB UNIF    WV 0 1
   1803  LOAD Z  806 906   21.63    03  10.81    03                   GLOB UNIF    WV 0 1
   1804  LOAD X  9011001    0.00    08  10.81    07                   GLOB UNIF    WV 0 1
   1805  LOAD Y  9011001    0.00    16  10.81    14                   GLOB UNIF    WV 0 1
   1806  LOAD X  9011001   10.81    07  10.81    07                   GLOB UNIF    WV 0 1
   1807  LOAD Y  9011001   10.81    14  10.81    13                   GLOB UNIF    WV 0 1
   1808  LOAD X  9011001   21.63    07  10.81    07                   GLOB UNIF    WV 0 1
   1809  LOAD Y  9011001   21.63    13  10.81    12                   GLOB UNIF    WV 0 1
   1810  LOAD X  9031003    0.00    07  10.81    06                   GLOB UNIF    WV 0 1
   1811  LOAD Y  9031003    0.00    11  10.81    09                   GLOB UNIF    WV 0 1
   1812  LOAD Z  9031003    0.00-   02  10.81-   02                   GLOB UNIF    WV 0 1
   1813  LOAD X  9031003   10.81    06  10.81    05                   GLOB UNIF    WV 0 1
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                1   1   2   2   3   3   4   4   5   5   6   6   7   7   8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

  1814  LOAD Y  9031003   10.81    09  10.81    08               GLOB UNIF    WV 0 1
  1815  LOAD Z  9031003   19.81-   02  10.81-   1                GLOB UNIF    WV 0 1
  1816  LOAD X  9031003   21.63    05  10.81    03               GLOB UNIF    WV 0 1
  1817  LOAD Y  9031003   21.63    08  10.81    06               GLOB UNIF    WV 0 1
  1818  LOAD Z  9031003   21.63-   1   10.81-   1                GLOB UNIF    WV 0 1
  1819  LOAD X  9061006    0.00    10  16.22    09               GLOB UNIF    WV 0 1
  1820  LOAD Y  9061006    0.00    17  16.22    15               GLOB UNIF    WV 0 1
  1821  LOAD Z  9061006    0.00    03  16.22    02               GLOB UNIF    WV 0 1
  1822  LOAD X  9061006   16.22    09  16.22    08               GLOB UNIF    WV 0 1
  1823  LOAD Y  9061006   16.22    15  16.22    14               GLOB UNIF    WV 0 1
  1824  LOAD Z  9061006   16.22    02  16.22    02               GLOB UNIF    WV 0 1
  1825  LOADCN  0
  1826  LOAD X  513 651   12.34-   06   5.66-   06               GLOB UNIF    WV 0 2
  1827  LOAD Y  513 651   12.34-   10   5.66-   10               GLOB UNIF    WV 0 2
  1828  LOAD X  514 653   14.75-   06   3.25-   05               GLOB UNIF    WV 0 2
  1829  LOAD Y  514 653   14.75-   10   3.25-   09               GLOB UNIF    WV 0 2
  1830  LOAD X  651 661    0.00-   1    5.00-   1                GLOB UNIF    WV 0 2
  1831  LOAD Z  651 661    0.00-   03   5.00-   03               GLOB UNIF    WV 0 2
  1832  LOAD X  653 663    0.00-   1    5.00-   1                GLOB UNIF    WV 0 2
  1833  LOAD Z  653 663    0.00-   02   5.00-   02               GLOB UNIF    WV 0 2
  1834  LOAD Y  661 662    0.00-   05  17.74-   05               GLOB UNIF    WV 0 2
  1835  LOAD Z  661 662    0.00-   05  17.74-   04               GLOB UNIF    WV 0 2
  1836  LOAD Y  662 663    0.00-   05  17.74-   06               GLOB UNIF    WV 0 2
  1837  LOAD Z  662 663    0.00-   04  17.74-   03               GLOB UNIF    WV 0 2
  1838  LOAD X  611 661    7.09-   03   5.03-   03               GLOB UNIF    WV 0 2
  1839  LOAD Y  611 661    7.09-   06   5.03-   05               GLOB UNIF    WV 0 2
  1840  LOAD X  612 662    8.17-   1    3.63-   1                GLOB UNIF    WV 0 2
  1841  LOAD Y  612 662    8.17-   03   3.63-   02               GLOB UNIF    WV 0 2
  1842  LOAD X  613 663    9.34-   03   2.79-   03               GLOB UNIF    WV 0 2
  1843  LOAD Y  613 663    9.34-   05   2.79-   05               GLOB UNIF    WV 0 2
  1844  LOAD X  622 703    3.02    1    6.25                     GLOB UNIF    WV 0 2
  1845  LOAD Y  622 703    3.02-   06   6.25-   06               GLOB UNIF    WV 0 2
  1846  LOAD Y  622 703    9.27-   06   6.25-   06               GLOB UNIF    WV 0 2
  1847  LOAD Z  622 703    9.27         6.25    1                GLOB UNIF    WV 0 2
  1848  LOAD Y  622 703   15.52-   06   6.25-   05               GLOB UNIF    WV 0 2
  1849  LOAD Z  622 703   15.52    1    6.25    1                GLOB UNIF    WV 0 2
  1850  LOAD X  625 706     .24-   03   7.23-   02               GLOB UNIF    WV 0 2
  1851  LOAD Y  625 706     .24-   05   7.23-   04               GLOB UNIF    WV 0 2
  1852  LOAD Z  625 706     .24-   07   7.23-   07               GLOB UNIF    WV 0 2
  1853  LOAD X  625 706    7.47-   02   7.23-   02               GLOB UNIF    WV 0 2
  1854  LOAD Y  625 706    7.47-   04   7.23-   04               GLOB UNIF    WV 0 2
  1855  LOAD Z  625 706    7.47-   07   7.23-   06               GLOB UNIF    WV 0 2
  1856  LOAD X  625 706   14.70-   02   7.23-   02               GLOB UNIF    WV 0 2
  1857  LOAD Y  625 706   14.70-   04   7.23-   03               GLOB UNIF    WV 0 2
  1858  LOAD Z  625 706   14.70-   06   7.23-   05               GLOB UNIF    WV 0 2
  1859  LOAD X  506 624   18.62-   03   1.62-   03               GLOB UNIF    WV 0 2
  1860  LOAD Z  505 624   18.62-   03   1.62-   03               GLOB UNIF    WV 0 2
  1861  LOAD X  624 701    0.00-   06   7.31-   06               GLOB UNIF    WV 0 2
  1862  LOAD Y  624 701    0.00-   1    7.31-   02               GLOB UNIF    WV 0 2
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LINE NO.	1...5		....1....1....2		....2....3		....3....4		....4....5....5....6		....6....7....7		8
1863	LOAD	Z	624 701	0.00-	03	7.31-	02		GLOB	UNIF	WV	0	2
1864	LOAD	X	624 701	7.31-	06	7.31-	05		GLOB	UNIF	WV	0	2
1865	LOAD	Y	624 701	7.31-	02	7.31-	02		GLOB	UNIF	WV	0	2
1866	LOAD	Z	624 701	7.31-	02	7.31-	02		GLOB	UNIF	WV	0	2
1867	LOAD	X	624 701	14.62-	05	7.31-	05		GLOB	UNIF	WV	0	2
1868	LOAD	Y	624 701	14.62-	02	7.31-	02		GLOB	UNIF	WV	0	2
1869	LOAD	Z	624 701	14.62-	02	7.31-	1		GLOB	UNIF	WV	0	2
1870	LOAD	Y	701 702	0.00-	02	18.76-	03		GLOB	UNIF	WV	0	2
1871	LOAD	Z	701 702	0.00-	04	18.76-	03		GLOB	UNIF	WV	0	2
1872	LOAD	Y	702 703	0.00-	03	18.76-	03		GLOB	UNIF	WV	0	2
1873	LOAD	Z	702 703	0.00-	03	18.76-	02		GLOB	UNIF	WV	0	2
1874	LOAD	Z	703 705	0.00-	02	18.75-	04		GLOB	UNIF	WV	0	2
1875	LOAD	Z	705 706	0.00-	04	18.76-	05		GLOB	UNIF	WV	0	2
1876	LOAD	X	701 704	0.00-	02	18.75-	02		GLOB	UNIF	WV	0	2
1877	LOAD	Y	701 704	0.00-	1	18.75-	1		GLOB	UNIF	WV	0	2
1878	LOAD	Z	701 704	0.00-	04	18.75-	04		GLOB	UNIF	WV	0	2
1879	LOAD	X	704 706	0.00-	02	18.76-	1		GLOB	UNIF	WV	0	2
1880	LOAD	Y	704 706	0.00-	1	18.76-	1		GLOB	UNIF	WV	0	2
1881	LOAD	Z	704 706	0.00-	04	18.76-	05		GLOB	UNIF	WV	0	2
1882	LOAD	Z	702 704	0.00-	03	18.75-	04		GLOB	UNIF	WV	0	2
1883	LOAD	X	702 705	0.00-	02	18.75-	02		GLOB	UNIF	WV	0	2
1884	LOAD	Y	702 705	0.00-	1	18.75-	1		GLOB	UNIF	WV	0	2
1885	LOAD	Z	702 705	0.00-	03	18.75-	04		GLOB	UNIF	WV	0	2
1886	LOAD	Y	704 705	0.00-	02	18.76-	02		GLOB	UNIF	WV	0	2
1887	LOAD	Z	704 705	0.00-	04	18.76-	04		GLOB	UNIF	WV	0	2
1888	LOAD	X	701 806	0.00-	03	16.72-	03		GLOB	UNIF	WV	0	2
1889	LOAD	Y	701 806	0.00-	05	16.72-	04		GLOB	UNIF	WV	0	2
1890	LOAD	Z	701 806	0.00-	04	16.72-	03		GLOB	UNIF	WV	0	2
1891	LOAD	X	701 806	16.72-	03	16.72-	02		GLOB	UNIF	WV	0	2
1892	LOAD	Y	701 806	16.72-	04	16.72-	03		GLOB	UNIF	WV	0	2
1893	LOAD	Z	701 806	16.72-	03	16.72-	03		GLOB	UNIF	WV	0	2
1894	LOAD	X	701 806	33.44-	02	16.72-	02		GLOB	UNIF	WV	0	2
1895	LOAD	Y	701 806	33.44-	03	16.72-	03		GLOB	UNIF	WV	0	2
1896	LOAD	Z	701 806	33.44-	03	16.72-	02		GLOB	UNIF	WV	0	2
1897	LOAD	X	703 801	0.00-	02	16.72-	02		GLOB	UNIF	WV	0	2
1898	LOAD	Y	703 801	0.00-	06	16.72-	05		GLOB	UNIF	WV	0	2
1899	LOAD	Z	703 801	0.00-	03	16.72-	02		GLOB	UNIF	WV	0	2
1900	LOAD	X	703 801	16.72-	02	16.72-	02		GLOB	UNIF	WV	0	2
1901	LOAD	Y	703 801	16.72-	05	16.72-	04		GLOB	UNIF	WV	0	2
1902	LOAD	Z	703 801	16.72-	02	16.72-	02		GLOB	UNIF	WV	0	2
1903	LOAD	X	703 801	33.44-	02	16.72-	1		GLOB	UNIF	WV	0	2
1904	LOAD	Y	703 801	33.44-	04	16.72-	04		GLOB	UNIF	WV	0	2
1905	LOAD	Z	703 801	33.44-	02	16.72-	02		GLOB	UNIF	WV	0	2
1906	LOAD	X	706 803	0.00	1	16.72			GLOB	UNIF	WV	0	2
1907	LOAD	Y	706 803	0.00	1	14.75			GLOB	UNIF	WV	0	2
1908	LOAD	Z	706 803	0.00-	03	16.72			GLOB	UNIF	WV	0	2
1909	LOAD	Y	706 803	16.72		16.72-	1		GLOB	UNIF	WV	0	2
1910	LOAD	Z	706 803	16.72		16.72	02		GLOB	UNIF	WV	0	2
1911	LOAD	X	706 803	33.44		16.72-	1		GLOB	UNIF	WV	0	2

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LINE NO.	1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0												
1912	LOAD	Y	706	803	33.44-	1	16.72-	1	GLOB	UNIF	WV	0	2
1913	LOAD	Z	706	803	33.44	02	16.72	02	GLOB	UNIF	WV	0	2
1914	LOAD	Y	801	802	0.00-	02	22.79-	02	GLOB	UNIF	WV	0	2
1915	LOAD	Z	801	802	0.00-	1	22.79-	1	GLOB	UNIF	WV	0	2
1916	LOAD	Y	802	803	0.00-	02	22.79-	02	GLOB	UNIF	WV	0	2
1917	LOAD	Z	802	803	0.00-	1	22.79-	1	GLOB	UNIF	WV	0	2
1918	LOAD	Z	803	805	0.00		22.79-	1	GLOB	UNIF	WV	0	2
1919	LOAD	Z	805	806	0.00-	1	11.40-	02	GLOB	UNIF	WV	0	2
1920	LOAD	Z	805	806	11.40-	02	11.40-	02	GLOB	UNIF	WV	0	2
1921	LOAD	X	801	804	0.00-	02	22.79-	1	GLOB	UNIF	WV	0	2
1922	LOAD	Y	801	804	0.00-	1	22.79-	1	GLOB	UNIF	WV	0	2
1923	LOAD	Z	801	804	0.00-	1	22.79-	02	GLOB	UNIF	WV	0	2
1924	LOAD	X	804	806	0.00-	1	22.80-	1	GLOB	UNIF	WV	0	2
1925	LOAD	Y	804	806	0.00-	1	22.80-	1	GLOB	UNIF	WV	0	2
1926	LOAD	Z	804	806	0.00-	02	22.80-	02	GLOB	UNIF	WV	0	2
1927	LOAD	Z	802	804	0.00-	1	22.80-	02	GLOB	UNIF	WV	0	2
1928	LOAD	X	802	805	0.00-	02	22.80-	1	GLOB	UNIF	WV	0	2
1929	LOAD	Y	802	805	0.00-	1	22.80-	1	GLOB	UNIF	WV	0	2
1930	LOAD	Z	802	805	0.00-	1	22.80-	1	GLOB	UNIF	WV	0	2
1931	LOAD	Y	804	805	0.00-	1	22.80-	02	GLOB	UNIF	WV	0	2
1932	LOAD	Z	804	805	0.00-	02	22.80-	1	GLOB	UNIF	WV	0	2
1933	LOAD	Y	801	903	0.00-	04	19.87-	03	GLOB	UNIF	WV	0	2
1934	LOAD	Z	801	903	0.00		19.87	1	GLOB	UNIF	WV	0	2
1935	LOAD	X	801	903	19.87		19.87-	1	GLOB	UNIF	WV	0	2
1936	LOAD	Y	801	903	19.87-	03	19.87-	03	GLOB	UNIF	WV	0	2
1937	LOAD	Z	801	903	19.87	1	19.87	1	GLOB	UNIF	WV	0	2
1938	LOAD	X	801	903	39.73-	1	19.87-	1	GLOB	UNIF	WV	0	2
1939	LOAD	Y	801	903	39.73-	03	19.87-	03	GLOB	UNIF	WV	0	2
1940	LOAD	Z	801	903	39.73	1	19.87	1	GLOB	UNIF	WV	0	2
1941	LOAD	X	803	906	0.00-	1	19.87-	1	GLOB	UNIF	WV	0	2
1942	LOAD	Y	803	906	0.00-	1	19.87-	1	GLOB	UNIF	WV	0	2
1943	LOAD	Z	803	906	0.00-	02	19.87-	02	GLOB	UNIF	WV	0	2
1944	LOAD	X	803	906	19.87-	1	19.87-	1	GLOB	UNIF	WV	0	2
1945	LOAD	Y	803	906	19.87-	1	19.87-	1	GLOB	UNIF	WV	0	2
1946	LOAD	Z	803	906	19.87-	02	19.87-	02	GLOB	UNIF	WV	0	2
1947	LOAD	X	803	906	39.73-	1	19.87-	1	GLOB	UNIF	WV	0	2
1948	LOAD	Y	803	906	39.73-	1	19.87-	1	GLOB	UNIF	WV	0	2
1949	LOAD	Z	803	906	39.73-	02	19.87-	02	GLOB	UNIF	WV	0	2
1950	LOAD	X	806	901	0.00-	03	19.87-	03	GLOB	UNIF	WV	0	2
1951	LOAD	Y	806	901	0.00-	1	19.87-	1	GLOB	UNIF	WV	0	2
1952	LOAD	Z	806	901	0.00-	1	19.87		GLOB	UNIF	WV	0	2
1953	LOAD	X	806	901	19.87-	03	19.87-	03	GLOB	UNIF	WV	0	2
1954	LOAD	Y	806	901	19.87-	1	19.87-	02	GLOB	UNIF	WV	0	2
1955	LOAD	X	806	901	39.74-	03	19.87-	02	GLOB	UNIF	WV	0	2
1956	LOAD	Y	806	901	39.74-	02	19.87-	02	GLOB	UNIF	WV	0	2
1957	LOAD	Z	806	901	39.74		19.87	1	GLOB	UNIF	WV	0	2
1958	LOAD	Y	901	902	0.00-	02	27.42-	02	GLOB	UNIF	WV	0	2
1959	LOAD	Y	902	903	0.00-	02	27.42-	02	GLOB	UNIF	WV	0	2
1960	LOAD	Z	905	906	13.71		13.71-	1	GLOB	UNIF	WV	0	2

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                  1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

   1961  LOAD X  901 904    0.00-   02  27.41-    02                  GLOB UNIF    WV 0 2
   1962  LOAD Y  901 904    0.00-    1  27.41-     1                  GLOB UNIF    WV 0 2
   1963  LOAD X  904 906    0.00-   02  27.42-     1                  GLOB UNIF    WV 0 2
   1964  LOAD Y  904 906    0.00-    1  27.42-     1                  GLOB UNIF    WV 0 2
   1965  LOAD Z  904 906    0.00        27.42-     1                  GLOB UNIF    WV 0 2
   1966  LOAD X  902 905    0.00-    1  27.41-     1                  GLOB UNIF    WV 0 2
   1967  LOAD Y  902 905    0.00-    1  27 41-     1                  GLOB UNIF    WV 0 2
   1968  LOAD Y  904 905    0.00-    1  27.42-     1                  GLOB UNIF    WV 0 2
   1969  LOAD X  9011002    0.00-    1  21.11-     1                  GLOB UNIF    WV 0 2
   1970  LOAD Y  9011002    0.00-   02  21.11-    02                  GLOB UNIF    WV 0 2
   1971  LOAD Z  9011002    0.00     1  21.11      1                  GLOB UNIF    WV 0 2
   1972  LOAD X  9011002   21.11-    1  21.11-     1                  GLOB UNIF    WV 0 2
   1973  LOAD Y  9011002   21.11-   02  21.11-    02                  GLOB UNIF    WV 0 2
   1974  LOAD Z  9011002   21.11     1  21.11      1                  GLOB UNIF    WV 0 2
   1975  LOAD X  9031002    0.00-    1  42.23-     1                  GLOB UNIF    WV 0 2
   1976  LOAD Y  9031002    0.00-   03  42.23-    02                  GLOB UNIF    WV 0 2
   1977  LOAD Z  9031002    0.00        42.23-     1                  GLOB UNIF    WV 0 2
   1978  LOAD X  9031005    0.00-    1  42.23-     1                  GLOB UNIF    WV 0 2
   1979  LOAD Y  9031005    0.00-    1  42.23-     1                  GLOB UNIF    WV 0 2
   1980  LOAD Z  9031005    0.00-    1  42.23-     1                  GLOB UNIF    WV 0 2
   1981  LOAD X  9061005    0.00        14.07-     1                  GLOB UNIF    WV 0 2
   1982  LOAD Y  9061005    0.00-    1  14.07-     1                  GLOB UNIF    WV 0 2
   1983  LOAD Z  9061005    0.00     1  14.07      1                  GLOB UNIF    WV 0 2
   1984  LOAD X  9061005   14.07-    1  14.07-     1                  GLOB UNIF    WV 0 2
   1985  LOAD Y  9061005   14.07-    1  14.07-     1                  GLOB UNIF    WV 0 2
   1986  LOAD Z  9061005   14.07     1  14.07      1                  GLOB UNIF    WV 0 2
   1987  LOAD X  9061005   28.15-    1  14.07-     1                  GLOB UNIF    WV 0 2
   1988  LOAD Y  9061005   28.15-    1  14.07-     1                  GLOB UNIF    WV 0 2
   1989  LOAD Z  9061005   28.15     1  14.07      1                  GLOB UNIF    WV 0 2
   1990  LOAD X  9011004    0.00-   02  42.23-    02                  GLOB UNIF    WV 0 2
   1991  LOAD Y  9011004    0.00-   02  42.23-    02                  GLOB UNIF    WV 0 2
   1992  LOAD Z  9011004    0.00-    1  42.23-     1                  GLOB UNIF    WV 0 2
   1993  LOAD X  9061004    0.00-   02  14.07-    02                  GLOB UNIF    WV 0 2
   1994  LOAD Y  9061004    0.00-    1  14.07-    02                  GLOB UNIF    WV 0 2
   1995  LOAD X  9061004   14.07-   02  14.07-    02                  GLOB UNIF    WV 0 2
   1996  LOAD Y  9061004   14.07-   02  14.07-    02                  GLOB UNIF    WV 0 2
   1997  LOAD X  9061004   28.15-   02  14.07-    02                  GLOB UNIF    WV 0 2
   1998  LOAD Y  9061004   28.15-   02  14.07-    02                  GLOB UNIF    WV 0 2
   1999  LOAD Z  9061004   28.15        14.07      1                  GLOB UNIF    WV 0 2
   2000  LOAD Y 10011002    0.00-   03  32.04-    03                  GLOB UNIF    WV 0 2
   2001  LOAD Y 10021003    0.00-   03  32.04-    03                  GLOB UNIF    WV 0 2
   2002  LOAD X 10011004    0.00-   02  32.04-    02                  GLOB UNIF    WV 0 2
   2003  LOAD Y 10011004    0.00-    1  32.04-     1                  GLOB UNIF    WV 0 2
   2004  LOAD X 10041006    0.00-   02  32.04-    02                  GLOB UNIF    WV 0 2
   2005  LOAD Y 10041006    0.00-    1  32.04-     1                  GLOB UNIF    WV 0 2
   2006  LOAD X 10021005    0.00-    1  32.04-     1                  GLOB UNIF    WV 0 2
   2007  LOAD Y 10021005    0.00-    1  32.04-     1                  GLOB UNIF    WV 0 2
   2008  LOAD Y 10041005    0.00-    1  32.04-     1                  GLOB UNIF    WV 0 2
   2009  LOAD X  606 626    3.96-   09   2.74-    08                  GLOB UNIF    WV 0 2
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LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

LINE NO.												
2010	LOAD	Y	606	626	3.96-	14	2.74-	13	GLOB	UNIF	WV	0 2
2011	LOAD	Z	606	626	3.96-	07	2.74-	07	GLOB	UNIF	WV	0 2
2012	LOAD	X	621	651	.35-	18	5.74-	17	GLOB	UNIF	WV	0 2
2013	LOAD	Y	621	651	.35-	29	5.74-	27	GLOB	UNIF	WV	0 2
2014	LOAD	X	623	653	2.84-	14	3.24-	13	GLOB	UNIF	WV	0 2
2015	LOAD	Y	623	653	2.84-	26	3.24-	25	GLOB	UNIF	WV	0 2
2016	LOAD	Z	623	653	2.84-	04	3.24-	04	GLOB	UNIF	WV	0 2
2017	LOAD	X	626	656	0.00-	18	6.08-	16	GLOB	UNIF	WV	0 2
2018	LOAD	Y	626	656	0.00-	29	6.08-	27	GLOB	UNIF	WV	0 2
2019	LOAD	Z	626	656	0.00	05	6.08	04	GLOB	UNIF	WV	0 2
2020	LOAD	X	651	701	0.00-	15	7.10-	14	GLOB	UNIF	WV	0 2
2021	LOAD	Y	651	701	0.00-	29	7.10-	26	GLOB	UNIF	WV	0 2
2022	LOAD	X	656	706	0.00-	17	7.10-	16	GLOB	UNIF	WV	0 2
2023	LOAD	Y	656	706	0.00-	29	7.10-	27	GLOB	UNIF	WV	0 2
2024	LOAD	Z	656	706	0.00-	05	7.10-	04	GLOB	UNIF	WV	0 2
2025	LOAD	X	653	703	0.00-	16	7.10-	14	GLOB	UNIF	WV	0 2
2026	LOAD	Y	653	703	0.00-	26	7.10-	24	GLOB	UNIF	WV	0 2
2027	LOAD	Z	653	703	0.00	04	7.10	04	GLOB	UNIF	WV	0 2
2028	LOAD	X	701	801	0.00-	14	9.46-	12	GLOB	UNIF	WV	0 2
2029	LOAD	Y	701	801	0.00-	25	9.46-	23	GLOB	UNIF	WV	0 2
2030	LOAD	X	701	801	9.46-	12	9.46-	11	GLOB	UNIF	WV	0 2
2031	LOAD	Y	701	801	9.46-	23	9.46-	21	GLOB	UNIF	WV	0 2
2032	LOAD	X	701	801	18.92-	11	9.46-	10	GLOB	UNIF	WV	0 2
2033	LOAD	Y	701	801	18.92-	21	9.46-	19	GLOB	UNIF	WV	0 2
2034	LOAD	X	703	803	0.00-	14	9.46-	12	GLOB	UNIF	WV	0 2
2035	LOAD	Y	703	803	0.00-	23	9.46-	20	GLOB	UNIF	WV	0 2
2036	LOAD	Z	703	803	0.00	04	9.46	03	GLOB	UNIF	WV	0 2
2037	LOAD	X	703	803	9.46-	12	9.46-	11	GLOB	UNIF	WV	0 2
2038	LOAD	Y	703	803	9.46-	20	9.46-	18	GLOB	UNIF	WV	0 2
2039	LOAD	Z	703	803	9.46	03	9.46	03	GLOB	UNIF	WV	0 2
2040	LOAD	X	703	803	18.92-	11	9.46-	10	GLOB	UNIF	WV	0 2
2041	LOAD	Y	703	803	18.92-	18	9.46-	17	GLOB	UNIF	WV	0 2
2042	LOAD	Z	703	803	18.92	03	9.46	03	GLOB	UNIF	WV	0 2
2043	LOAD	X	706	806	0.00-	15	9.46-	13	GLOB	UNIF	WV	0 2
2044	LOAD	Y	706	806	0.00-	26	9.46-	23	GLOB	UNIF	WV	0 2
2045	LOAD	Z	706	806	0.00-	04	9.46-	04	GLOB	UNIF	WV	0 2
2046	LOAD	X	706	806	9.46-	13	9.46-	12	GLOB	UNIF	WV	0 2
2047	LOAD	Y	706	806	9.46-	23	9.46-	21	GLOB	UNIF	WV	0 2
2048	LOAD	Z	706	806	9.46-	04	9.46-	03	GLOB	UNIF	WV	0 2
2049	LOAD	X	706	806	18.92-	12	9.46-	11	GLOB	UNIF	WV	0 2
2050	LOAD	Y	706	806	18.92-	21	9.46-	19	GLOB	UNIF	WV	0 2
2051	LOAD	Z	706	806	18.92-	03	9.46-	03	GLOB	UNIF	WV	0 2
2052	LOAD	X	801	901	0.00-	10	10.81-	09	GLOB	UNIF	WV	0 2
2053	LOAD	Y	801	901	0.00-	19	10.81-	17	GLOB	UNIF	WV	0 2
2054	LOAD	X	801	901	10.81-	09	10.81-	09	GLOB	UNIF	WV	0 2
2055	LOAD	Y	801	901	10.81-	17	10.81-	16	GLOB	UNIF	WV	0 2
2056	LOAD	X	801	901	21.63-	09	10.81-	08	GLOB	UNIF	WV	0 2
2057	LOAD	Y	801	901	21.63-	16	10.81-	15	GLOB	UNIF	WV	0 2
2058	LOAD	X	803	903	0.00-	10	10.81-	09	GLOB	UNIF	WV	0 2

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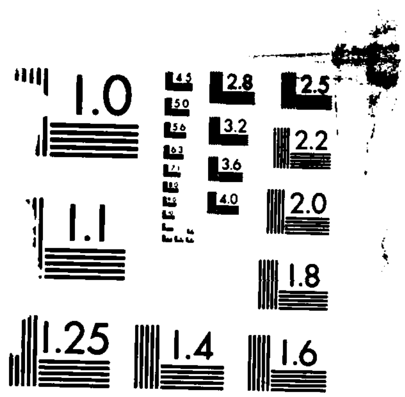
                   1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

  2059  LOAD Y  803 903    0.00-   17  10.81-   15              GLOB UNIF   WV 0 2
  2060  LOAD Z  803 903    0.00    03  10.81    03              GLOB UNIF   WV 0 2
  2061  LOAD X  803 903   10.81-   09  10.81-   08              GLOB UNIF   WV 0 2
  2062  LOAD Y  803 903   10.81-   15  10.81-   14              GLOB UNIF   WV 0 2
  2063  LOAD Z  803 903   10.81    03  10.81    02              GLOB UNIF   WV 0 2
  2064  LOAD X  803 903   21.63-   08  10.81-   08              GLOB UNIF   WV 0 2
  2065  LOAD Y  803 903   21.63-   14  10.81-   13              GLOB UNIF   WV 0 2
  2066  LOAD Z  803 903   21.63    02  10.81    02              GLOB UNIF   WV 0 2
  2067  LOAD X  806 906    0.00-   11  10.81-   10              GLOB UNIF   WV 0 2
  2068  LOAD Y  806 906    0.00-   19  10.81-   17              GLOB UNIF   WV 0 2
  2069  LOAD Z  806 906    0.00-   03  10.81-   03              GLOB UNIF   WV 0 2
  2070  LOAD X  806 906   10.81-   10  10.81-   09              GLOB UNIF   WV 0 2
  2071  LOAD Y  806 906   10.81-   17  10.81-   15              GLOB UNIF   WV 0 2
  2072  LOAD Z  806 906   10.81-   03  10.81-   03              GLOB UNIF   WV 0 2
  2073  LOAD X  806 906   21.63-   09  10.81-   08              GLOB UNIF   WV 0 2
  2074  LOAD Y  806 906   21.63-   15  10.81-   14              GLOB UNIF   WV 0 2
  2075  LOAD Z  806 906   21.63-   03  10.81-   02              GLOB UNIF   WV 0 2
  2076  LOAD X  9011001    0.00-   08  32.44-   08              GLOB UNIF   WV 0 2
  2077  LOAD Y  9011001    0.00-   15  32.44-   14              GLOB UNIF   WV 0 2
  2078  LOAD X  9031003    0.00-   08  32.44-   07              GLOB UNIF   WV 0 2
  2079  LOAD Y  9031003    0.00-   13  32.44-   12              GLOB UNIF   WV 0 2
  2080  LOAD Z  9031003    0.00    02  32.44    02              GLOB UNIF   WV 0 2
  2081  LOAD X  9061006    0.00-   08  16.22-   08              GLOB UNIF   WV 0 2
  2082  LOAD Y  9061006    0.00-   14  16.22-   13              GLOB UNIF   WV 0 2
  2083  LOAD Z  9061006    0.00-   02  16.22-   02              GLOB UNIF   WV 0 2
  2084  LOAD X  9061006   16.22-   08  16.22-   08              GLOB UNIF   WV 0 2
  2085  LOAD Y  9061006   16.22-   13  16.22-   13              GLOB UNIF   WV 0 2
  2086  LOAD Z  9061006   16.22-   02  16.22-   02              GLOB UNIF   WV 0 2
  2087  LOADCN   7
  2088  LOAD X  301 403   20.56    17  10.05    16              GLOB UNIF   WV 0 1
  2089  LOAD Y  301 403   20.56    58  10.05    51              GLOB UNIF   WV 0 1
  2090  LOAD Z  301 403   20.56-   17  10.05-   17              GLOB UNIF   WV 0 1
  2091  LOAD X  301 403   30.81    16  10.05    15              GLOB UNIF   WV 0 1
  2092  LOAD Y  301 403   30.81    51  10.05    45              GLOB UNIF   WV 0 1
  2093  LOAD Z  301 403   30.81-   17  10.05-   16              GLOB UNIF   WV 0 1
  2094  LOAD Y  501 502    0.00    26  15.15    26              GLOB UNIF   WV 0 1
  2095  LOAD Z  501 502    0.00    02  15.15                    GLOB UNIF   WV 0 1
  2096  LOAD Y  502 503    0.00    26  15.15    26              GLOB UNIF   WV 0 1
  2097  LOAD Z  502 503     .72        14.43-   02              GLOB UNIF   WV 0 1
  2098  LOAD Z  503 505    0.00-   03   5.05-   03              GLOB UNIF   WV 0 1
  2099  LOAD Z  503 505    5.05-   03   5.05-   03              GLOB UNIF   WV 0 1
  2100  LOAD Z  503 505   10.10-   03   5.05-   02              GLOB UNIF   WV 0 1
  2101  LOAD Z  505 506    0.00-   02   5.05-    1              GLOB UNIF   WV 0 1
  2102  LOAD Z  505 506    5.05-    1   5.05-    1              GLOB UNIF   WV 0 1
  2103  LOAD Z  505 506   10.10-    1   3.37                    GLOB UNIF   WV 0 1
  2104  LOAD X  501 504    0.00    22  15.15    22              GLOB UNIF   WV 0 1
  2105  LOAD Y  501 504    0.00    13  15.15    13              GLOB UNIF   WV 0 1
  2106  LOAD Z  501 504    0.00    02  15.15    04              GLOB UNIF   WV 0 1
  2107  LOAD X  504 506    0.00    22  15.15    21              GLOB UNIF   WV 0 1
```

AD-A165 651 FATIGUE ANALYSIS EAST COAST AIR COMBAT MANEUVERING RANGE OFFSHORE KITTY H. (U) CREST ENGINEERING INC TULSA OK SEP 76 27-771-100 CHES/NAVFAC-FPO-7616 3/6

UNCLASSIFIED N62477-76-C-0179 F/G 13/13 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

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                 1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0
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2108	LOAD	Y	504	506	0.00	13	15.15	12	GLOB	UNIF	WV	0	1
2109	LOAD	Z	504	506	0.00	04	15.15	06	GLOB	UNIF	WV	0	1
2110	LOAD	Z	502	504	0.00-	02	5.05-	1	GLOB	UNIF	WV	0	1
2111	LOAD	Z	502	504	5.05-	1	5.05-	1	GLOB	UNIF	WV	0	1
2112	LOAD	Z	502	504	10.10-	1	5.05		GLOB	UNIF	WV	0	1
2113	LOAD	X	502	505	0.00	18	15.15	18	GLOB	UNIF	WV	0	1
2114	LOAD	Y	502	505	0.00	10	15.15	10	GLOB	UNIF	WV	0	1
2115	LOAD	Z	502	505	0.00	1	15.15	02	GLOB	UNIF	WV	0	1
2116	LOAD	Y	504	505	0.00	20	15.16	20	GLOB	UNIF	WV	0	1
2117	LOAD	Z	504	505	0.00	04	15.16	02	GLOB	UNIF	WV	0	1
2118	LOAD	X	501	513	0.00	13	2.99	13	GLOB	UNIF	WV	0	1
2119	LOAD	Y	501	513	0.00	22	2.99	22	GLOB	UNIF	WV	0	1
2120	LOAD	Z	501	513	0.00	03	2.99	03	GLOB	UNIF	WV	0	1
2121	LOAD	X	503	514	0.00-	03	2.99-	03	GLOB	UNIF	WV	0	1
2122	LOAD	Y	503	514	0.00	06	2.99	06	GLOB	UNIF	WV	0	1
2123	LOAD	Z	503	514	0.00-	1	2.99-	02	GLOB	UNIF	WV	0	1
2124	LOAD	X	513	651	0.00	44	6.00	39	GLOB	UNIF	WV	0	1
2125	LOAD	Y	513	651	0.00	75	6.00	68	GLOB	UNIF	WV	0	1
2126	LOAD	X	513	651	6.00	39	6.00	35	GLOB	UNIF	WV	0	1
2127	LOAD	Y	513	651	6.00	68	6.00	61	GLOB	UNIF	WV	0	1
2128	LOAD	X	513	651	12.00	35	6.00	32	GLOB	UNIF	WV	0	1
2129	LOAD	Y	513	651	12.00	61	6.00	55	GLOB	UNIF	WV	0	1
2130	LOAD	X	514	653	0.00	43	6.00	39	GLOB	UNIF	WV	0	1
2131	LOAD	Y	514	653	0.00	75	6.00	67	GLOB	UNIF	WV	0	1
2132	LOAD	X	514	653	6.00	39	6.00	35	GLOB	UNIF	WV	0	1
2133	LOAD	Y	514	653	6.00	67	6.00	60	GLOB	UNIF	WV	0	1
2134	LOAD	X	514	653	12.00	35	6.00	31	GLOB	UNIF	WV	0	1
2135	LOAD	Y	514	653	12.00	60	6.00	54	GLOB	UNIF	WV	0	1
2136	LOAD	X	601	611	0.00	07	6.00	07	GLOB	UNIF	WV	0	1
2137	LOAD	X	603	613	0.00	07	6.00	07	GLOB	UNIF	WV	0	1
2138	LOAD	Z	603	613	0.00-	02	6.00-	02	GLOB	UNIF	WV	0	1
2139	LOAD	X	651	661	0.00	06	5.00	06	GLOB	UNIF	WV	0	1
2140	LOAD	X	653	663	0.00	05	5.00	05	GLOB	UNIF	WV	0	1
2141	LOAD	Z	653	663	0.00-	02	5.00-	02	GLOB	UNIF	WV	0	1
2142	LOAD	Y	611	612	0.00	17	16.01	17	GLOB	UNIF	WV	0	1
2143	LOAD	Z	611	612	0.00	1	16.29		GLOB	UNIF	WV	0	1
2144	LOAD	Y	612	613	0.00	17	16.01	17	GLOB	UNIF	WV	0	1
2145	LOAD	Z	612	613	0.00		16.01-	02	GLOB	UNIF	WV	0	1
2146	LOAD	Y	661	662	0.00	32	17.74	31	GLOB	UNIF	WV	0	1
2147	LOAD	Z	661	662	0.00-	02	17.74-	05	GLOB	UNIF	WV	0	1
2148	LOAD	Y	662	663	0.00	31	17.74	31	GLOB	UNIF	WV	0	1
2149	LOAD	Z	662	663	0.00-	05	17.74-	08	GLOB	UNIF	WV	0	1
2150	LOAD	X	611	661	0.00	28	6.06	25	GLOB	UNIF	WV	0	1
2151	LOAD	Y	611	661	0.00	51	6.06	46	GLOB	UNIF	WV	0	1
2152	LOAD	Z	611	661	0.00	04	6.06	04	GLOB	UNIF	WV	0	1
2153	LOAD	X	611	661	6.06	25	6.06	23	GLOB	UNIF	WV	0	1
2154	LOAD	Y	611	661	6.06	46	6.06	41	GLOB	UNIF	WV	0	1
2155	LOAD	Z	611	661	6.06	04	6.06	03	GLOB	UNIF	WV	0	1
2156	LOAD	X	612	662	0.00	19	6.00	17	GLOB	UNIF	WV	0	1

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LINE NO.	1...5....1 0....1 5				2 0....2 5	3 0	3 5	4 0....4 5....5 0....5 5....6 0	6 5	7 0....7 5		8 0
2157	LOAD	Y	612	662	0.00	35	6.00	30	GLOB	UNIF	WV	0	1
2158	LOAD	X	612	662	6.00	17	6.00	15	GLOB	UNIF	WV	0	1
2159	LOAD	Y	612	662	6.00	30	6.00	27	GLOB	UNIF	WV	0	1
2160	LOAD	X	613	663	0.00	30	4.04	28	GLOB	UNIF	WV	0	1
2161	LOAD	Y	613	663	0.00	50	4.04	46	GLOB	UNIF	WV	0	1
2162	LOAD	Z	613	663	0.00-	04	4.04-	04	GLOB	UNIF	WV	0	1
2163	LOAD	X	613	663	4.04	28	4.04	26	GLOB	UNIF	WV	0	1
2164	LOAD	Y	613	663	4.04	46	4.04	43	GLOB	UNIF	WV	0	1
2165	LOAD	Z	613	663	4.04-	04	4.04-	04	GLOB	UNIF	WV	0	1
2166	LOAD	X	613	663	8.08	26	4.04	24	GLOB	UNIF	WV	0	1
2167	LOAD	Y	613	663	8.08	43	4.04	40	GLOB	UNIF	WV	0	1
2168	LOAD	Z	613	663	8.08-	04	4.04-	03	GLOB	UNIF	WV	0	1
2169	LOAD	X	501	622	0.00	04	10.21	05	GLOB	UNIF	WV	0	1
2170	LOAD	Y	501	622	0.00	30	10.21	28	GLOB	UNIF	WV	0	1
2171	LOAD	Z	501	622	0.00-	08	10.21-	09	GLOB	UNIF	WV	0	1
2172	LOAD	X	501	622	10.21	05	10.21	05	GLOB	UNIF	WV	0	1
2173	LOAD	Y	501	622	10.21	28	10.21	25	GLOB	UNIF	WV	0	1
2174	LOAD	Z	501	622	10.21-	09	10.21-	09	GLOB	UNIF	WV	0	1
2175	LOAD	X	622	703	0.00	09	10.89	09	GLOB	UNIF	WV	0	1
2176	LOAD	Y	622	703	0.00	39	10.89	35	GLOB	UNIF	WV	0	1
2177	LOAD	Z	622	703	0.00-	16	10.89-	15	GLOB	UNIF	WV	0	1
2178	LOAD	X	622	703	10.89	09	10.89	09	GLOB	UNIF	WV	0	1
2179	LOAD	Y	622	703	10.89	35	10.89	31	GLOB	UNIF	WV	0	1
2180	LOAD	Z	622	703	10.89-	15	10.89-	15	GLOB	UNIF	WV	0	1
2181	LOAD	X	503	625	0.00	05	20.25	05	GLOB	UNIF	WV	0	1
2182	LOAD	Y	503	625	0.00	06	20.25	07	GLOB	UNIF	WV	0	1
2183	LOAD	Z	503	625	0.00	10	20.25	12	GLOB	UNIF	WV	0	1
2184	LOAD	X	625	706	0.00	08	10.96	08	GLOB	UNIF	WV	0	1
2185	LOAD	Y	625	706	0.00	10	10.96	10	GLOB	UNIF	WV	0	1
2186	LOAD	Z	625	706	0.00	17	10.96	17	GLOB	UNIF	WV	0	1
2187	LOAD	X	625	706	10.96	08	10.96	07	GLOB	UNIF	WV	0	1
2188	LOAD	Y	625	706	10.96	10	10.96	10	GLOB	UNIF	WV	0	1
2189	LOAD	Z	625	706	10.96	17	10.96	17	GLOB	UNIF	WV	0	1
2190	LOAD	X	506	624	0.00	25	10.12	22	GLOB	UNIF	WV	0	1
2191	LOAD	Y	506	624	0.00	19	10.12	18	GLOB	UNIF	WV	0	1
2192	LOAD	Z	506	624	0.00-	03	10.12-	04	GLOB	UNIF	WV	0	1
2193	LOAD	X	506	624	10.12	22	10.12	20	GLOB	UNIF	WV	0	1
2194	LOAD	Y	506	624	10.12	18	10.12	17	GLOB	UNIF	WV	0	1
2195	LOAD	Z	506	624	10.12-	04	10.12-	04	GLOB	UNIF	WV	0	1
2196	LOAD	X	624	701	0.00	31	10.97	27	GLOB	UNIF	WV	0	1
2197	LOAD	Y	624	701	0.00	28	10.97	26	GLOB	UNIF	WV	0	1
2198	LOAD	Z	624	701	0.00-	09	10.97-	09	GLOB	UNIF	WV	0	1
2199	LOAD	X	624	701	10.97	27	10.97	24	GLOB	UNIF	WV	0	1
2200	LOAD	Y	624	701	10.97	26	10.97	24	GLOB	UNIF	WV	0	1
2201	LOAD	Z	624	701	10.97-	09	10.97-	09	GLOB	UNIF	WV	0	1
2202	LOAD	Y	701	702	0.00	21	18.76	21	GLOB	UNIF	WV	0	1
2203	LOAD	Z	701	702	1.10		17.66-	02	GLOB	UNIF	WV	0	1
2204	LOAD	Y	702	703	0.00	21	18.76	20	GLOB	UNIF	WV	0	1
2205	LOAD	Z	702	703	0.00-	02	18.76-	03	GLOB	UNIF	WV	0	1

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LINE NO.												
2206	LOAD	Z	703	705	0.00-	04	9.38-	03	GLOB	UNIF	WV	0 1
2207	LOAD	Z	703	705	9.38-	03	9.38-	03	GLOB	UNIF	WV	0 1
2208	LOAD	Z	705	706	0.00-	03	6.25-	02	GLOB	UNIF	WV	0 1
2209	LOAD	Z	705	706	6.25-	02	6.25-	02	GLOB	UNIF	WV	0 1
2210	LOAD	Z	705	706	12.51-	02	6.25-	1	GLOB	UNIF	WV	0 1
2211	LOAD	X	701	704	0.00	18	18.75	18	GLOB	UNIF	WV	0 1
2212	LOAD	Y	701	704	0.00	10	18.75	10	GLOB	UNIF	WV	0 1
2213	LOAD	Z	701	704	0.00		18.75	02	GLOB	UNIF	WV	0 1
2214	LOAD	X	704	706	0.00	18	18.76	17	GLOB	UNIF	WV	0 1
2215	LOAD	Y	704	706	0.00	10	18.76	10	GLOB	UNIF	WV	0 1
2216	LOAD	Z	704	706	0.00	02	18.76	03	GLOB	UNIF	WV	0 1
2217	LOAD	Z	702	704	0.00-	03	9.38-	03	GLOB	UNIF	WV	0 1
2218	LOAD	Z	702	704	9.38-	03	9.38-	02	GLOB	UNIF	WV	0 1
2219	LOAD	X	702	705	0.00	18	18.75	18	GLOB	UNIF	WV	0 1
2220	LOAD	Y	702	705	0.00	10	18.75	10	GLOB	UNIF	WV	0 1
2221	LOAD	Z	702	705	0.00-	02	17.65		GLOB	UNIF	WV	0 1
2222	LOAD	Y	704	705	0.00	20	18.76	21	GLOB	UNIF	WV	0 1
2223	LOAD	Z	704	705	0.00	02	18.76		GLOB	UNIF	WV	0 1
2224	LOAD	X	701	806	0.00	26	16.72	22	GLOB	UNIF	WV	0 1
2225	LOAD	Y	701	806	0.00	20	16.72	17	GLOB	UNIF	WV	0 1
2226	LOAD	Z	701	806	0.00	08	16.72	08	GLOB	UNIF	WV	0 1
2227	LOAD	X	701	806	16.72	22	16.72	19	GLOB	UNIF	WV	0 1
2228	LOAD	Y	701	806	16.72	17	16.72	15	GLOB	UNIF	WV	0 1
2229	LOAD	Z	701	806	16.72	08	16.72	08	GLOB	UNIF	WV	0 1
2230	LOAD	X	701	806	33.44	19	16.72	16	GLOB	UNIF	WV	0 1
2231	LOAD	Y	701	806	33.44	15	16.72	13	GLOB	UNIF	WV	0 1
2232	LOAD	Z	701	806	33.44	08	16.72	07	GLOB	UNIF	WV	0 1
2233	LOAD	X	703	801	0.00	04	16.72	04	GLOB	UNIF	WV	0 1
2234	LOAD	Y	703	801	0.00	34	16.72	29	GLOB	UNIF	WV	0 1
2235	LOAD	Z	703	801	0.00	03	16.72	03	GLOB	UNIF	WV	0 1
2236	LOAD	X	703	801	16.72	04	16.72	04	GLOB	UNIF	WV	0 1
2237	LOAD	Y	703	801	16.72	29	16.72	25	GLOB	UNIF	WV	0 1
2238	LOAD	Z	703	801	16.72	03	16.72	04	GLOB	UNIF	WV	0 1
2239	LOAD	X	703	801	33.44	04	16.72	04	GLOB	UNIF	WV	0 1
2240	LOAD	Y	703	801	33.44	25	16.72	22	GLOB	UNIF	WV	0 1
2241	LOAD	Z	703	801	33.44	04	16.72	04	GLOB	UNIF	WV	0 1
2242	LOAD	X	706	803	0.00	03	50.16	03	GLOB	UNIF	WV	0 1
2243	LOAD	Y	706	803	0.00	06	50.16	06	GLOB	UNIF	WV	0 1
2244	LOAD	Z	706	803	0.00-	09	50.16-	10	GLOB	UNIF	WV	0 1
2245	LOAD	Y	801	802	0.00	14	22.79	14	GLOB	UNIF	WV	0 1
2246	LOAD	Z	801	802	0.00-	1	22.79-	02	GLOB	UNIF	WV	0 1
2247	LOAD	Y	802	803	0.00	14	22.79	14	GLOB	UNIF	WV	0 1
2248	LOAD	Z	802	803	0.00-	02	22.79-	03	GLOB	UNIF	WV	0 1
2249	LOAD	Z	803	805	0.00-	03	22.79-	02	GLOB	UNIF	WV	0 1
2250	LOAD	Z	805	806	0.00-	02	11.40-	02	GLOB	UNIF	WV	0 1
2251	LOAD	Z	805	806	11.40-	02	11.40-	1	GLOB	UNIF	WV	0 1
2252	LOAD	X	801	804	0.00	12	22.79	12	GLOB	UNIF	WV	0 1
2253	LOAD	Y	801	804	0.00	07	22.79	07	GLOB	UNIF	WV	0 1
2254	LOAD	Z	801	804	0.00-	1	12.45		GLOB	UNIF	WV	0 1

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LINE NO.													
2255	LOAD	X	804	806	0.00	12	22.80	12	GLOB	UNIF	WV	0	1
2256	LOAD	Y	804	806	0.00	07	22.80	07	GLOB	UNIF	WV	0	1
2257	LOAD	Z	804	806	0.00		22.80	1	GLOB	UNIF	WV	0	1
2258	LOAD	Z	802	804	0.00-	02	11.40-	02	GLOB	UNIF	WV	0	1
2259	LOAD	Z	802	804	11.40-	02	11.40-	1	GLOB	UNIF	WV	0	1
2260	LOAD	X	802	805	0.00	11	22.80	11	GLOB	UNIF	WV	0	1
2261	LOAD	Y	802	805	0.00	06	22.80	07	GLOB	UNIF	WV	0	1
2262	LOAD	Z	802	805	0.00-	1	22.80		GLOB	UNIF	WV	0	1
2263	LOAD	Y	804	805	0.00	13	22.80	13	GLOB	UNIF	WV	0	1
2264	LOAD	Z	804	805	0.00	1	15.68		GLOB	UNIF	WV	0	1
2265	LOAD	X	801	903	0.00	04	19.87	03	GLOB	UNIF	WV	0	1
2266	LOAD	Y	801	903	0.00	19	19.87	17	GLOB	UNIF	WV	0	1
2267	LOAD	Z	801	903	0.00-	07	19.87-	07	GLOB	UNIF	WV	0	1
2268	LOAD	X	801	903	19.87	03	19.87	03	GLOB	UNIF	WV	0	1
2269	LOAD	Y	801	903	19.87	17	19.87	14	GLOB	UNIF	WV	0	1
2270	LOAD	Z	801	903	19.87-	07	19.87-	06	GLOB	UNIF	WV	0	1
2271	LOAD	X	801	903	39.73	05	19.87	03	GLOB	UNIF	WV	0	1
2272	LOAD	Y	801	903	39.73	14	19.87	12	GLOB	UNIF	WV	0	1
2273	LOAD	Z	801	903	39.73-	06	19.87-	05	GLOB	UNIF	WV	0	1
2274	LOAD	X	803	906	0.00	1	19.87	02	GLOB	UNIF	WV	0	1
2275	LOAD	Y	803	906	0.00	1	19.87	02	GLOB	UNIF	WV	0	1
2276	LOAD	Z	803	906	0.00	02	19.87	04	GLOB	UNIF	WV	0	1
2277	LOAD	X	803	906	19.87	02	19.87	02	GLOB	UNIF	WV	0	1
2278	LOAD	Y	803	906	19.87	02	19.87	05	GLOB	UNIF	WV	0	1
2279	LOAD	Z	803	906	19.87	04	19.87	05	GLOB	UNIF	WV	0	1
2280	LOAD	X	803	906	39.73	02	19.87	02	GLOB	UNIF	WV	0	1
2281	LOAD	Y	803	906	39.73	05	19.87	05	GLOB	UNIF	WV	0	1
2282	LOAD	Z	803	906	39.73	05	19.87	05	GLOB	UNIF	WV	0	1
2283	LOAD	X	806	901	0.00	15	19.87	13	GLOB	UNIF	WV	0	1
2284	LOAD	Y	806	901	0.00	13	19.87	12	GLOB	UNIF	WV	0	1
2285	LOAD	Z	806	901	0.00-	04	19.87-	04	GLOB	UNIF	WV	0	1
2286	LOAD	X	806	901	19.87	13	19.87	12	GLOB	UNIF	WV	0	1
2287	LOAD	Y	806	901	19.87	12	19.87	11	GLOB	UNIF	WV	0	1
2288	LOAD	Z	806	901	19.87-	04	19.87-	04	GLOB	UNIF	WV	0	1
2289	LOAD	X	806	901	39.74	12	19.87	10	GLOB	UNIF	WV	0	1
2290	LOAD	Y	806	901	39.74	11	19.87	10	GLOB	UNIF	WV	0	1
2291	LOAD	Z	806	901	39.74-	04	19.87-	04	GLOB	UNIF	WV	0	1
2292	LOAD	Y	901	902	0.00	11	27.42	10	GLOB	UNIF	WV	0	1
2293	LOAD	Z	901	902	0.00-	1	27.42-	1	GLOB	UNIF	WV	0	1
2294	LOAD	Y	902	903	0.00	10	27.42	10	GLOB	UNIF	WV	0	1
2295	LOAD	Z	902	903	0.00-	1	27.42-	02	GLOB	UNIF	WV	0	1
2296	LOAD	Z	903	905	0.00-	1	27.41-	1	GLOB	UNIF	WV	0	1
2297	LOAD	Z	905	906	0.00-	1	27.42-	1	GLOB	UNIF	WV	0	1
2298	LOAD	X	901	904	0.00	09	27.41	09	GLOB	UNIF	WV	0	1
2299	LOAD	Y	901	904	0.00	05	27.41	05	GLOB	UNIF	WV	0	1
2300	LOAD	Z	901	904	0.00-	1	27.41		GLOB	UNIF	WV	0	1
2301	LOAD	X	904	906	0.00	09	27.42	09	GLOB	UNIF	WV	0	1
2302	LOAD	Y	904	906	0.00	05	27.42	05	GLOB	UNIF	WV	0	1
2303	LOAD	Z	902	904	0.00-	1	27.41-	1	GLOB	UNIF	WV	0	1

STRAN INPUT DATA

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                    1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

  2304  LOAD X  902 905    0.00    07  27.41    07              GLOB UNIF    WV 0 1
  2305  LOAD Y  902 905    0.00    04  27.41    04              GLOB UNIF    WV 0 1
  2306  LOAD Z  902 905    0.00-    1  27.41                    GLOB UNIF    WV 0 1
  2307  LOAD Y  904 905    0.00    08  27.42    09              GLOB UNIF    WV 0 1
  2308  LOAD X  9011002    0.00    04  14.08    04              GLOB UNIF    WV 0 1
  2309  LOAD Y  9011002    0.00    12  14.08    11              GLOB UNIF    WV 0 1
  2310  LOAD Z  9011002    0.00-   04  14.08-   04              GLOB UNIF    WV 0 1
  2311  LOAD X  9011002   14.08    04  14.08    03              GLOB UNIF    WV 0 1
  2312  LOAD Y  9011002   14.08    11  14.08    10              GLOB UNIF    WV 0 1
  2313  LOAD Z  9011002   14.08-   04  14.08-   04              GLOB UNIF    WV 0 1
  2314  LOAD X  9011002   28.15    03  14.08    02              GLOB UNIF    WV 0 1
  2315  LOAD Y  9011002   28.15    10  14.08    08              GLOB UNIF    WV 0 1
  2316  LOAD Z  9011002   28.15-   04  14.08-   03              GLOB UNIF    WV 0 1
  2317  LOAD X  9031002    0.00    05  14.08    03              GLOB UNIF    WV 0 1
  2318  LOAD Y  9031002    0.00    12  14.08    11              GLOB UNIF    WV 0 1
  2319  LOAD Z  9031002    0.00    02  14.08    02              GLOB UNIF    WV 0 1
  2320  LOAD X  9031002   14.08    03  14.08    03              GLOB UNIF    WV 0 1
  2321  LOAD Y  9031002   14.08    11  14.08    10              GLOB UNIF    WV 0 1
  2322  LOAD Z  9031002   14.08    02  14.08    02              GLOB UNIF    WV 0 1
  2323  LOAD X  9031002   28.15    03  14.08    03              GLOB UNIF    WV 0 1
  2324  LOAD Y  9031002   28.15    10  14.08    09              GLOB UNIF    WV 0 1
  2325  LOAD Z  9031002   28.15    02  14.08    02              GLOB UNIF    WV 0 1
  2326  LOAD X  9031005    0.00    03  14.08    03              GLOB UNIF    WV 0 1
  2327  LOAD Y  9031005    0.00    04  14.08    04              GLOB UNIF    WV 0 1
  2328  LOAD Z  9031005    0.00    04  14.08    05              GLOB UNIF    WV 0 1
  2329  LOAD X  9031005   14.08    03  14.08    03              GLOB UNIF    WV 0 1
  2330  LOAD Y  9031005   14.08    04  14.08    04              GLOB UNIF    WV 0 1
  2331  LOAD Z  9031005   14.08    05  14.08    05              GLOB UNIF    WV 0 1
  2332  LOAD X  9031005   28.15    03  14.08    03              GLOB UNIF    WV 0 1
  2333  LOAD Y  9031005   28.15    04  14.08    04              GLOB UNIF    WV 0 1
  2334  LOAD Z  9031005   28.15    05  14.08    04              GLOB UNIF    WV 0 1
  2335  LOAD X  9061005    0.00    03  21.11    03              GLOB UNIF    WV 0 1
  2336  LOAD Y  9061005    0.00    05  21.11    05              GLOB UNIF    WV 0 1
  2337  LOAD Z  9061005    0.00-   05  21.11-   05              GLOB UNIF    WV 0 1
  2338  LOAD X  9061005   21.11    03  21.11    02              GLOB UNIF    WV 0 1
  2339  LOAD Y  9061005   21.11    05  21.11    04              GLOB UNIF    WV 0 1
  2340  LOAD Z  9061005   21.11-   05  21.11-   04              GLOB UNIF    WV 0 1
  2341  LOAD X  9011004    0.00    09  14.08    08              GLOB UNIF    WV 0 1
  2342  LOAD Y  9011004    0.00    09  14.08    08              GLOB UNIF    WV 0 1
  2343  LOAD Z  9011004    0.00    04  14.08    04              GLOB UNIF    WV 0 1
  2344  LOAD X  9011004   14.08    08  14.08    07              GLOB UNIF    WV 0 1
  2345  LOAD Y  9011004   14.08    08  14.08    08              GLOB UNIF    WV 0 1
  2346  LOAD Z  9011004   14.08    04  14.08    03              GLOB UNIF    WV 0 1
  2347  LOAD X  9011004   28.15    07  14.08    06              GLOB UNIF    WV 0 1
  2348  LOAD Y  9011004   28.15    08  14.08    06              GLOB UNIF    WV 0 1
  2349  LOAD Z  9011004   28.15    05  14.08    03              GLOB UNIF    WV 0 1
  2350  LOAD X  9061004    0.00    08  14.07    08              GLOB UNIF    WV 0 1
  2351  LOAD Y  9061004    0.00    10  14.07    09              GLOB UNIF    WV 0 1
  2352  LOAD Z  9061004    0.00-   03  14.07-   03              GLOB UNIF    WV 0 1
```

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         1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0
```

LINE NO.	CARD	DIR	JOINTS	VALUE 1		VALUE 2				
2353	LOAD	X	9061004	14.07	08	14.07	07	GLOB UNIF	WV 0	1
2354	LOAD	Y	9061004	14.07	09	14.07	08	GLOB UNIF	WV 0	1
2355	LOAD	Z	9061004	14.07-	03	14.07-	02	GLOB UNIF	WV 0	1
2356	LOAD	X	9061004	28.15	07	14.07	06	GLOB UNIF	WV 0	1
2357	LOAD	Y	9061004	28.15	08	14.07	07	GLOB UNIF	WV 0	1
2358	LOAD	Z	9061004	28.15-	02	14.07-	02	GLOB UNIF	WV 0	1
2359	LOAD	Y	10011002	0.00	09	32.04	09	GLOB UNIF	WV 0	1
2360	LOAD	Y	10021003	0.00	09	32.04	08	GLOB UNIF	WV 0	1
2361	LOAD	X	10011004	0.00	08	32.04	08	GLOB UNIF	WV 0	1
2362	LOAD	Y	10011004	0.00	05	32.04	05	GLOB UNIF	WV 0	1
2363	LOAD	X	10041006	0.00	08	32.04	08	GLOB UNIF	WV 0	1
2364	LOAD	Y	10041006	0.00	05	32.04	04	GLOB UNIF	WV 0	1
2365	LOAD	X	10021005	0.00	05	32.04	06	GLOB UNIF	WV 0	1
2366	LOAD	Y	10021005	0.00	03	32.04	03	GLOB UNIF	WV 0	1
2367	LOAD	Y	10041005	0.00	06	32.04	06	GLOB UNIF	WV 0	1
2368	LOAD	X	301 401	14.98	45	4.51	41	GLOB UNIF	WV 0	1
2369	LOAD	Y	301 401	14.98	78	4.51	71	GLOB UNIF	WV 0	1
2370	LOAD	X	301 401	19.48	41	4.51	36	GLOB UNIF	WV 0	1
2371	LOAD	Y	301 401	19.48	71	4.51	65	GLOB UNIF	WV 0	1
2372	LOAD	X	301 401	23.99	38	4.51	35	GLOB UNIF	WV 0	1
2373	LOAD	Y	301 401	23.99	65	4.51	60	GLOB UNIF	WV 0	1
2374	LOAD	X	303 403	13.86	47	4.88	42	GLOB UNIF	WV 0	1
2375	LOAD	Y	303 403	13.86	81	4.88	74	GLOB UNIF	WV 0	1
2376	LOAD	X	303 403	18.74	42	4.88	39	GLOB UNIF	WV 0	1
2377	LOAD	Y	303 403	18.74	74	4.88	67	GLOB UNIF	WV 0	1
2378	LOAD	X	303 403	23.62	39	4.88	35	GLOB UNIF	WV 0	1
2379	LOAD	Y	303 403	23.62	67	4.88	61	GLOB UNIF	WV 0	1
2380	LOAD	X	306 406	17.23	40	5.64	36	GLOB UNIF	WV 0	1
2381	LOAD	Y	306 406	17.23	69	5.64	62	GLOB UNIF	WV 0	1
2382	LOAD	X	306 406	22.86	36	5.64	32	GLOB UNIF	WV 0	1
2383	LOAD	Y	306 406	22.86	62	5.64	56	GLOB UNIF	WV 0	1
2384	LOAD	X	401 501	0.00	55	4.56	50	GLOB UNIF	WV 0	1
2385	LOAD	Y	401 501	0.00	98	4.56	91	GLOB UNIF	WV 0	1
2386	LOAD	X	403 503	0.00	56	4.56	52	GLOB UNIF	WV 0	1
2387	LOAD	Y	403 503	0.00	96	4.56	88	GLOB UNIF	WV 0	1
2388	LOAD	Z	403 503	0.00-	16	4.56-	15	GLOB UNIF	WV 0	1
2389	LOAD	X	406 506	0.00	55	4.56	51	GLOB UNIF	WV 0	1
2390	LOAD	Y	406 506	0.00	94	4.56	87	GLOB UNIF	WV 0	1
2391	LOAD	Z	406 506	0.00	16	4.56	14	GLOB UNIF	WV 0	1
2392	LOAD	X	501 601	0.00	50	6.08	45	GLOB UNIF	WV 0	1
2393	LOAD	Y	501 601	0.00	91	6.08	82	GLOB UNIF	WV 0	1
2394	LOAD	X	503 603	0.00	52	3.04	49	GLOB UNIF	WV 0	1
2395	LOAD	Y	503 603	0.00	88	3.04	83	GLOB UNIF	WV 0	1
2396	LOAD	Z	503 603	0.00-	15	3.04-	14	GLOB UNIF	WV 0	1
2397	LOAD	X	503 603	3.04	49	3.04	47	GLOB UNIF	WV 0	1
2398	LOAD	Y	503 603	3.04	83	3.04	79	GLOB UNIF	WV 0	1
2399	LOAD	Z	503 603	3.04-	14	3.04-	13	GLOB UNIF	WV 0	1
2400	LOAD	X	506 606	0.00	51	6.08	46	GLOB UNIF	WV 0	1
2401	LOAD	Y	506 606	0.00	87	6.08	78	GLOB UNIF	WV 0	1

STRAN INPUT DATA

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LINE NO.												
2402	LOAD	Z	506	606	0.00	15	6.08	13	GLOB UNIF	WV	0	1
2403	LOAD	X	601	621	0.00	43	3.35	41	GLOB UNIF	WV	0	1
2404	LOAD	Y	601	621	0.00	83	3.35	79	GLOB UNIF	WV	0	1
2405	LOAD	Z	601	621	0.00-	02	3.35-	02	GLOB UNIF	WV	0	1
2406	LOAD	X	601	621	3.35	41	3.35	39	GLOB UNIF	WV	0	1
2407	LOAD	Y	601	621	3.35	79	3.35	75	GLOB UNIF	WV	0	1
2408	LOAD	Z	601	621	3.35-	02	3.35-	02	GLOB UNIF	WV	0	1
2409	LOAD	X	603	623	0.00	37	6.71	34	GLOB UNIF	WV	0	1
2410	LOAD	Y	603	623	0.00	70	6.71	63	GLOB UNIF	WV	0	1
2411	LOAD	Z	603	623	0.00-	34	6.71-	30	GLOB UNIF	WV	0	1
2412	LOAD	X	606	626	0.00	46	3.35	44	GLOB UNIF	WV	0	1
2413	LOAD	Y	606	626	0.00	66	3.35	63	GLOB UNIF	WV	0	1
2414	LOAD	Z	606	626	0.00	33	3.35	31	GLOB UNIF	WV	0	1
2415	LOAD	X	606	626	3.35	44	3.35	42	GLOB UNIF	WV	0	1
2416	LOAD	Y	606	626	3.35	63	3.35	59	GLOB UNIF	WV	0	1
2417	LOAD	Z	606	626	3.35	31	3.35	29	GLOB UNIF	WV	0	1
2418	LOAD	X	621	651	0.00	67	3.04	63	GLOB UNIF	WV	0	1
2419	LOAD	Y	621	651	0.00	106	3.04	101	GLOB UNIF	WV	0	1
2420	LOAD	Z	621	651	0.00-	1	3.04-	1	GLOB UNIF	WV	0	1
2421	LOAD	X	621	651	3.04	63	3.04	60	GLOB UNIF	WV	0	1
2422	LOAD	Y	621	651	3.04	101	3.04	95	GLOB UNIF	WV	0	1
2423	LOAD	Z	621	651	3.04-	1	3.04-	1	GLOB UNIF	WV	0	1
2424	LOAD	X	623	653	0.00	49	3.04	46	GLOB UNIF	WV	0	1
2425	LOAD	Y	623	653	0.00	95	3.04	90	GLOB UNIF	WV	0	1
2426	LOAD	Z	623	653	0.00	15	3.04	14	GLOB UNIF	WV	0	1
2427	LOAD	X	623	653	3.04	46	3.04	44	GLOB UNIF	WV	0	1
2428	LOAD	Y	623	653	3.04	90	3.04	86	GLOB UNIF	WV	0	1
2429	LOAD	Z	623	653	3.04	14	3.04	14	GLOB UNIF	WV	0	1
2430	LOAD	X	626	656	0.00	59	6.08	55	GLOB UNIF	WV	0	1
2431	LOAD	Y	626	656	0.00	101	6.08	92	GLOB UNIF	WV	0	1
2432	LOAD	Z	626	656	0.00-	17	6.08-	15	GLOB UNIF	WV	0	1
2433	LOAD	X	651	701	0.00	52	3.55	49	GLOB UNIF	WV	0	1
2434	LOAD	Y	651	701	0.00	100	3.55	93	GLOB UNIF	WV	0	1
2435	LOAD	Z	651	701	0.00-	1	3.55-	1	GLOB UNIF	WV	0	1
2436	LOAD	X	651	701	3.55	49	3.55	46	GLOB UNIF	WV	0	1
2437	LOAD	Y	651	701	3.55	93	3.55	88	GLOB UNIF	WV	0	1
2438	LOAD	Z	651	701	3.55-	1	3.55-	1	GLOB UNIF	WV	0	1
2439	LOAD	X	656	706	0.00	57	3.55	54	GLOB UNIF	WV	0	1
2440	LOAD	Y	656	706	0.00	95	3.55	89	GLOB UNIF	WV	0	1
2441	LOAD	Z	656	706	0.00	16	3.55	15	GLOB UNIF	WV	0	1
2442	LOAD	X	656	706	3.55	54	3.55	50	GLOB UNIF	WV	0	1
2443	LOAD	Y	656	706	3.55	89	3.55	83	GLOB UNIF	WV	0	1
2444	LOAD	Z	656	706	3.55	15	3.55	14	GLOB UNIF	WV	0	1
2445	LOAD	X	653	703	0.00	56	3.55	52	GLOB UNIF	WV	0	1
2446	LOAD	Y	653	703	0.00	92	3.55	86	GLOB UNIF	WV	0	1
2447	LOAD	Z	653	703	0.00-	16	3.55-	15	GLOB UNIF	WV	0	1
2448	LOAD	X	653	703	3.55	52	3.55	49	GLOB UNIF	WV	0	1
2449	LOAD	Y	653	703	3.55	86	3.55	80	GLOB UNIF	WV	0	1
2450	LOAD	Z	653	703	3.55-	15	3.55-	14	GLOB UNIF	WV	0	1

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                  1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0
```

2451	LOAD	X	701	801	0.00	45	9.46	38	GLOB	UNIF	WV	0	1
2452	LOAD	Y	701	801	0.00	85	9.46	73	GLOB	UNIF	WV	0	1
2453	LOAD	Z	701	801	0.00-	1	9.46-	1	GLOB	UNIF	WV	0	1
2454	LOAD	X	701	801	9.46	38	9.46	33	GLOB	UNIF	WV	0	1
2455	LOAD	Y	701	801	9.46	73	9.46	63	GLOB	UNIF	WV	0	1
2456	LOAD	Z	701	801	9.46-	1	9.46		GLOB	UNIF	WV	0	1
2457	LOAD	X	701	801	18.92	33	9.46	29	GLOB	UNIF	WV	0	1
2458	LOAD	Y	701	801	18.92	63	9.46	55	GLOB	UNIF	WV	0	1
2459	LOAD	X	703	803	0.00	48	9.46	40	GLOB	UNIF	WV	0	1
2460	LOAD	Y	703	803	0.00	78	9.46	66	GLOB	UNIF	WV	0	1
2461	LOAD	Z	703	803	0.00-	13	9.46-	11	GLOB	UNIF	WV	0	1
2462	LOAD	X	703	803	9.46	40	9.46	34	GLOB	UNIF	WV	0	1
2463	LOAD	Y	703	803	9.46	66	9.46	56	GLOB	UNIF	WV	0	1
2464	LOAD	Z	703	803	9.46-	11	9.46-	10	GLOB	UNIF	WV	0	1
2465	LOAD	X	703	803	18.92	34	9.46	29	GLOB	UNIF	WV	0	1
2466	LOAD	Y	703	803	18.92	56	9.46	48	GLOB	UNIF	WV	0	1
2467	LOAD	Z	703	803	18.92-	10	9.46-	08	GLOB	UNIF	WV	0	1
2468	LOAD	X	706	806	0.00	49	9.46	42	GLOB	UNIF	WV	0	1
2469	LOAD	Y	706	806	0.00	81	9.46	69	GLOB	UNIF	WV	0	1
2470	LOAD	Z	706	806	0.00	13	9.46	12	GLOB	UNIF	WV	0	1
2471	LOAD	X	706	806	9.46	42	9.46	37	GLOB	UNIF	WV	0	1
2472	LOAD	Y	706	806	9.46	69	9.46	60	GLOB	UNIF	WV	0	1
2473	LOAD	Z	706	806	9.46	12	9.46	10	GLOB	UNIF	WV	0	1
2474	LOAD	X	706	806	18.92	37	9.46	32	GLOB	UNIF	WV	0	1
2475	LOAD	Y	706	806	18.92	60	9.46	53	GLOB	UNIF	WV	0	1
2476	LOAD	Z	706	806	18.92	10	9.46	09	GLOB	UNIF	WV	0	1
2477	LOAD	X	801	901	0.00	29	10.81	25	GLOB	UNIF	WV	0	1
2478	LOAD	Y	801	901	0.00	55	10.81	48	GLOB	UNIF	WV	0	1
2479	LOAD	X	801	901	10.81	25	10.81	22	GLOB	UNIF	WV	0	1
2480	LOAD	Y	801	901	10.81	48	10.81	41	GLOB	UNIF	WV	0	1
2481	LOAD	X	801	901	21.63	22	10.81	20	GLOB	UNIF	WV	0	1
2482	LOAD	Y	801	901	21.63	41	10.81	37	GLOB	UNIF	WV	0	1
2483	LOAD	X	803	903	0.00	29	10.81	25	GLOB	UNIF	WV	0	1
2484	LOAD	Y	803	903	0.00	48	10.81	41	GLOB	UNIF	WV	0	1
2485	LOAD	Z	803	903	0.00-	08	10.81-	07	GLOB	UNIF	WV	0	1
2486	LOAD	X	803	903	10.81	25	10.81	20	GLOB	UNIF	WV	0	1
2487	LOAD	Y	803	903	10.81	41	10.81	34	GLOB	UNIF	WV	0	1
2488	LOAD	Z	803	903	10.81-	07	10.81-	06	GLOB	UNIF	WV	0	1
2489	LOAD	X	803	903	21.63	20	10.81	17	GLOB	UNIF	WV	0	1
2490	LOAD	Y	803	903	21.63	34	10.81	29	GLOB	UNIF	WV	0	1
2491	LOAD	Z	803	903	21.63-	06	10.81-	05	GLOB	UNIF	WV	0	1
2492	LOAD	X	806	906	0.00	32	10.81	28	GLOB	UNIF	WV	0	1
2493	LOAD	Y	806	906	0.00	55	10.81	46	GLOB	UNIF	WV	0	1
2494	LOAD	Z	806	906	0.00	09	10.81	08	GLOB	UNIF	WV	0	1
2495	LOAD	X	806	906	10.81	28	10.81	24	GLOB	UNIF	WV	0	1
2496	LOAD	Y	806	906	10.81	46	10.81	40	GLOB	UNIF	WV	0	1
2497	LOAD	Z	805	906	10.81	08	10.81	07	GLOB	UNIF	WV	0	1
2498	LOAD	X	806	906	21.63	24	10.81	22	GLOB	UNIF	WV	0	1
2499	LOAD	Y	806	906	21.63	40	10.81	36	GLOB	UNIF	WV	0	1

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LINE NO.										
2500	LOAD Z	806 906	21.63	07	10.81	06	GLOB	UNIF	WV 0	1
2501	LOAD X	9011001	0.00	20	10.81	18	GLOB	UNIF	WV 0	1
2502	LOAD Y	9011001	0.00	37	10.81	33	GLOB	UNIF	WV 0	1
2503	LOAD X	9011001	10.81	18	10.81	17	GLOB	UNIF	WV 0	1
2504	LOAD Y	9011001	10.81	33	10.81	30	GLOB	UNIF	WV 0	1
2505	LOAD X	9011001	21.63	17	10.81	15	GLOB	UNIF	WV 0	1
2506	LOAD Y	9011001	21.63	30	10.81	26	GLOB	UNIF	WV 0	1
2507	LOAD X	9031003	0.00	17	10.81	15	GLOB	UNIF	WV 0	1
2508	LOAD Y	9031003	0.00	29	10.81	26	GLOB	UNIF	WV 0	1
2509	LOAD Z	9031003	0.00-	05	10.81-	04	GLOB	UNIF	WV 0	1
2510	LOAD X	9031003	10.81	15	10.81	13	GLOB	UNIF	WV 0	1
2511	LOAD Y	9031003	10.81	26	10.81	22	GLOB	UNIF	WV 0	1
2512	LOAD Z	9031003	10.81-	04	10.81-	04	GLOB	UNIF	WV 0	1
2513	LOAD X	9031003	21.63	13	10.81	10	GLOB	UNIF	WV 0	1
2514	LOAD Y	9031003	21.63	22	10.81	17	GLOB	UNIF	WV 0	1
2515	LOAD Z	9031003	21.63-	04	10.81-	03	GLOB	UNIF	WV 0	1
2516	LOAD X	9061006	0.00	22	10.81	20	GLOB	UNIF	WV 0	1
2517	LOAD Y	9061006	0.00	36	10.81	34	GLOB	UNIF	WV 0	1
2518	LOAD Z	9061006	0.00	06	10.81	06	GLOB	UNIF	WV 0	1
2519	LOAD X	9061006	10.81	20	10.81	18	GLOB	UNIF	WV 0	1
2520	LOAD Y	9061006	10.81	34	10.81	31	GLOB	UNIF	WV 0	1
2521	LOAD Z	9061006	10.81	06	10.81	05	GLOB	UNIF	WV 0	1
2522	LOAD X	9061006	21.63	18	10.81	16	GLOB	UNIF	WV 0	1
2523	LOAD Y	9061006	21.63	31	10.81	27	GLOB	UNIF	WV 0	1
2524	LOAD Z	9061006	21.63	05	10.81	05	GLOB	UNIF	WV 0	1
2525	LOADCN	8								
2526	LOAD X	513 651	12.71-	07	5.29-	06	GLOB	UNIF	WV 0	2
2527	LOAD Y	513 651	12.71-	12	5.29-	11	GLOB	UNIF	WV 0	2
2528	LOAD X	514 653	15.28-	06	2.72-	06	GLOB	UNIF	WV 0	2
2529	LOAD Y	514 653	15.28-	10	2.72-	10	GLOB	UNIF	WV 0	2
2530	LOAD X	651 661	0.00-	1	5.00-	1	GLOB	UNIF	WV 0	2
2531	LOAD Z	651 661	0.00-	05	5.00-	05	GLOB	UNIF	WV 0	2
2532	LOAD X	653 663	0.00-	1	5.00-	1	GLOB	UNIF	WV 0	2
2533	LOAD Z	653 663	0.00-	04	5.00-	04	GLOB	UNIF	WV 0	2
2534	LOAD Y	661 662	0.00-	05	17.74-	06	GLOB	UNIF	WV 0	2
2535	LOAD Z	661 662	0.00-	06	17.74-	07	GLOB	UNIF	WV 0	2
2536	LOAD Y	662 663	0.00-	06	17.74-	06	GLOB	UNIF	WV 0	2
2537	LOAD Z	662 663	0.00-	07	17.74-	05	GLOB	UNIF	WV 0	2
2538	LOAD X	611 661	7.50-	03	4.62-	03	GLOB	UNIF	WV 0	2
2539	LOAD Y	611 661	7.50-	06	4.62-	06	GLOB	UNIF	WV 0	2
2540	LOAD X	612 662	8.66-	02	3.34-	02	GLOB	UNIF	WV 0	2
2541	LOAD Y	612 662	8.66-	03	3.34-	03	GLOB	UNIF	WV 0	2
2542	LOAD X	613 663	9.92-	03	2.20-	03	GLOB	UNIF	WV 0	2
2543	LOAD Y	613 663	9.92-	06	2.20-	06	GLOB	UNIF	WV 0	2
2544	LOAD X	622 703	3.89	1	5.96	1	GLOB	UNIF	WV 0	2
2545	LOAD Y	622 703	3.89-	07	5.96-	07	GLOB	UNIF	WV 0	2
2546	LOAD Z	622 703	3.89-	1	5.96-	1	GLOB	UNIF	WV 0	2
2547	LOAD X	622 703	9.85	1	5.96	1	GLOB	UNIF	WV 0	2
2548	LOAD Y	622 703	9.85-	07	5.96-	07	GLOB	UNIF	WV 0	2

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LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

2549	LOAD	Z	622	703	9.85-	1	5.96		GLOB	UNIF	WV	0	2
2550	LOAD	X	622	703	15.81	1	5.96		GLOB	UNIF	WV	0	2
2551	LOAD	Y	622	703	15.81-	07	5.96-	06	GLOB	UNIF	WV	0	2
2552	LOAD	X	625	706	.72-	03	7.07-	03	GLOB	UNIF	WV	0	2
2553	LOAD	Y	625	706	.72-	06	7.07-	05	GLOB	UNIF	WV	0	2
2554	LOAD	Z	625	706	.72-	09	7.07-	08	GLOB	UNIF	WV	0	2
2555	LOAD	X	625	706	7.79-	03	7.07-	03	GLOB	UNIF	WV	0	2
2556	LOAD	Y	625	706	7.79-	05	7.07-	05	GLOB	UNIF	WV	0	2
2557	LOAD	Z	625	706	7.79-	08	7.07-	08	GLOB	UNIF	WV	0	2
2558	LOAD	X	625	706	14.86-	03	7.07-	03	GLOB	UNIF	WV	0	2
2559	LOAD	Y	625	706	14.86-	05	7.07-	04	GLOB	UNIF	WV	0	2
2560	LOAD	Z	625	706	14.86-	08	7.07-	07	GLOB	UNIF	WV	0	2
2561	LOAD	X	506	624	19.13-	04	1.11-	04	GLOB	UNIF	WV	0	2
2562	LOAD	Y	506	624	19.13	1	1.11	1	GLOB	UNIF	WV	0	2
2563	LOAD	Z	506	624	19.13-	04	1.11-	04	GLOB	UNIF	WV	0	2
2564	LOAD	X	624	701	0.00-	07	7.31-	07	GLOB	UNIF	WV	0	2
2565	LOAD	Y	624	701	0.00-	1	7.31-	1	GLOB	UNIF	WV	0	2
2566	LOAD	Z	624	701	0.00-	05	7.31-	04	GLOB	UNIF	WV	0	2
2567	LOAD	X	624	701	7.31-	07	7.31-	07	GLOB	UNIF	WV	0	2
2568	LOAD	Y	624	701	7.31-	1	7.31-	02	GLOB	UNIF	WV	0	2
2569	LOAD	Z	624	701	7.31-	04	7.31-	03	GLOB	UNIF	WV	0	2
2570	LOAD	X	624	701	14.62-	07	7.31-	06	GLOB	UNIF	WV	0	2
2571	LOAD	Y	624	701	14.62-	02	7.31-	02	GLOB	UNIF	WV	0	2
2572	LOAD	Z	624	701	14.62-	03	7.31-	02	GLOB	UNIF	WV	0	2
2573	LOAD	Y	701	702	0.00-	03	18.76-	03	GLOB	UNIF	WV	0	2
2574	LOAD	Z	701	702	0.00-	06	18.76-	05	GLOB	UNIF	WV	0	2
2575	LOAD	Y	702	703	0.00-	03	18.76-	04	GLOB	UNIF	WV	0	2
2576	LOAD	Z	702	703	0.00-	05	18.76-	04	GLOB	UNIF	WV	0	2
2577	LOAD	Z	703	705	0.00-	04	9.38-	05	GLOB	UNIF	WV	0	2
2578	LOAD	Z	703	705	9.38-	05	9.38-	06	GLOB	UNIF	WV	0	2
2579	LOAD	Z	705	706	0.00-	06	18.76-	07	GLOB	UNIF	WV	0	2
2580	LOAD	X	701	704	0.00-	02	18.75-	02	GLOB	UNIF	WV	0	2
2581	LOAD	Y	701	704	0.00-	1	18.75-	1	GLOB	UNIF	WV	0	2
2582	LOAD	Z	701	704	0.00-	08	18.75-	07	GLOB	UNIF	WV	0	2
2583	LOAD	X	704	706	0.00-	02	18.76-	1	GLOB	UNIF	WV	0	2
2584	LOAD	Y	704	706	0.00-	1	18.76-	1	GLOB	UNIF	WV	0	2
2585	LOAD	Z	704	706	0.00-	07	18.76-	08	GLOB	UNIF	WV	0	2
2586	LOAD	Z	702	704	0.00-	05	9.38-	06	GLOB	UNIF	WV	0	2
2587	LOAD	Z	702	704	9.38-	06	9.38-	07	GLOB	UNIF	WV	0	2
2588	LOAD	X	702	705	0.00-	03	18.75-	02	GLOB	UNIF	WV	0	2
2589	LOAD	Y	702	705	0.00-	02	18.75-	1	GLOB	UNIF	WV	0	2
2590	LOAD	Z	702	705	0.00-	05	18.75-	06	GLOB	UNIF	WV	0	2
2591	LOAD	Y	704	705	0.00-	02	18.76-	03	GLOB	UNIF	WV	0	2
2592	LOAD	Z	704	705	0.00-	07	18.76-	06	GLOB	UNIF	WV	0	2
2593	LOAD	X	701	806	0.00-	03	16.72-	03	GLOB	UNIF	WV	0	2
2594	LOAD	Y	701	806	0.00-	06	16.72-	05	GLOB	UNIF	WV	0	2
2595	LOAD	Z	701	806	0.00-	06	16.72-	05	GLOB	UNIF	WV	0	2
2596	LOAD	X	701	806	16.72-	03	16.72-	03	GLOB	UNIF	WV	0	2
2597	LOAD	Y	701	806	16.72-	05	16.72-	04	GLOB	UNIF	WV	0	2

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LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

LINE NO.														
2598	LOAD	Z	701	806	16.72-	05	16.72-	04	GLOB	UNIF	WV	0	2
2599	LOAD	X	701	806	33.44-	03	16.72-	02	GLOB	UNIF	WV	0	2
2600	LOAD	Y	701	806	33.44-	04	16.72-	04	GLOB	UNIF	WV	0	2
2601	LOAD	Z	701	806	33.44-	04	16.72-	04	GLOB	UNIF	WV	0	2
2602	LOAD	X	703	801	0.00-	03	16.72-	03	GLOB	UNIF	WV	0	2
2603	LOAD	Y	703	801	0.00-	07	16.72-	06	GLOB	UNIF	WV	0	2
2604	LOAD	Z	703	801	0.00-	05	16.72-	04	GLOB	UNIF	WV	0	2
2605	LOAD	X	703	801	16.72-	03	16.72-	02	GLOB	UNIF	WV	0	2
2606	LOAD	Y	703	801	16.72-	06	16.72-	06	GLOB	UNIF	WV	0	2
2607	LOAD	Z	703	801	16.72-	04	16.72-	03	GLOB	UNIF	WV	0	2
2608	LOAD	X	703	801	33.44-	02	16.72-	02	GLOB	UNIF	WV	0	2
2609	LOAD	Y	703	801	33.44-	06	16.72-	05	GLOB	UNIF	WV	0	2
2610	LOAD	Z	703	801	33.44-	03	16.72-	03	GLOB	UNIF	WV	0	2
2611	LOAD	X	706	803	0.00	02	16.72	1	GLOB	UNIF	WV	0	2
2612	LOAD	Y	706	803	0.00	02	16.72		GLOB	UNIF	WV	0	2
2613	LOAD	Z	706	803	0.00-	05	16.72-	1	GLOB	UNIF	WV	0	2
2614	LOAD	X	706	803	16.72	1	12.54		GLOB	UNIF	WV	0	2
2615	LOAD	Y	706	803	20.58		12.66-	1	GLOB	UNIF	WV	0	2
2616	LOAD	Z	706	803	16.72-	1	5.62		GLOB	UNIF	WV	0	2
2617	LOAD	Z	706	803	22.53		10.90	1	GLOB	UNIF	WV	0	2
2618	LOAD	X	706	803	33.44		16.72-	1	GLOB	UNIF	WV	0	2
2619	LOAD	Y	706	803	33.44-	1	16.72-	02	GLOB	UNIF	WV	0	2
2620	LOAD	Z	706	803	33.44	1	16.72	03	GLOB	UNIF	WV	0	2
2621	LOAD	Y	801	802	0.00-	03	22.79-	03	GLOB	UNIF	WV	0	2
2622	LOAD	Z	801	802	0.00-	02	22.79-	02	GLOB	UNIF	WV	0	2
2623	LOAD	Y	802	803	0.00-	03	22.79-	03	GLOB	UNIF	WV	0	2
2624	LOAD	Z	802	803	0.00-	02	22.79-	1	GLOB	UNIF	WV	0	2
2625	LOAD	Z	803	805	0.00-	1	11.40-	02	GLOB	UNIF	WV	0	2
2626	LOAD	Z	803	805	11.40-	02	11.40-	02	GLOB	UNIF	WV	0	2
2627	LOAD	Z	805	806	0.00-	02	22.80-	03	GLOB	UNIF	WV	0	2
2628	LOAD	X	801	804	0.00-	02	22.79-	02	GLOB	UNIF	WV	0	2
2629	LOAD	Y	801	804	0.00-	1	22.79-	1	GLOB	UNIF	WV	0	2
2630	LOAD	Z	801	804	0.00-	02	22.79-	03	GLOB	UNIF	WV	0	2
2631	LOAD	X	804	806	0.00-	02	22.80-	1	GLOB	UNIF	WV	0	2
2632	LOAD	Y	804	806	0.00-	1	22.80-	1	GLOB	UNIF	WV	0	2
2633	LOAD	Z	804	806	0.00-	03	22.80-	04	GLOB	UNIF	WV	0	2
2634	LOAD	Z	802	804	0.00-	02	22.80-	03	GLOB	UNIF	WV	0	2
2635	LOAD	X	802	805	0.00-	02	22.80-	02	GLOB	UNIF	WV	0	2
2636	LOAD	Y	802	805	0.00-	1	22.80-	1	GLOB	UNIF	WV	0	2
2637	LOAD	Z	802	805	0.00-	02	22.80-	02	GLOB	UNIF	WV	0	2
2638	LOAD	Y	804	805	0.00-	02	22.80-	02	GLOB	UNIF	WV	0	2
2639	LOAD	Z	804	805	0.00-	03	22.80-	02	GLOB	UNIF	WV	0	2
2640	LOAD	Y	801	903	0.00-	05	19.87-	05	GLOB	UNIF	WV	0	2
2641	LOAD	Z	801	903	3.97		15.89	1	GLOB	UNIF	WV	0	2
2642	LOAD	X	801	903	19.87		19.87-	1	GLOB	UNIF	WV	0	2
2643	LOAD	Y	801	903	19.87-	05	19.87-	05	GLOB	UNIF	WV	0	2
2644	LOAD	Z	801	903	19.87	1	19.87	1	GLOB	UNIF	WV	0	2
2645	LOAD	X	801	903	39.73-	1	19.87-	1	GLOB	UNIF	WV	0	2
2646	LOAD	Y	801	903	39.73-	05	19.87-	04	GLOB	UNIF	WV	0	2

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LINE NO.									
2647	LOAD Z	801 903	39.73	1	19.87	1	GLOB UNIF	WV 0 2
2648	LOAD X	803 906	0.00-	1	19.87-	1	GLOB UNIF	WV 0 2
2649	LOAD Y	803 906	0.00-	02	19.87-	02	GLOB UNIF	WV 0 2
2650	LOAD Z	803 906	0.00-	04	19.87-	03	GLOB UNIF	WV 0 2
2651	LOAD X	803 906	19.87-	1	19.87-	1	GLOB UNIF	WV 0 2
2652	LOAD Y	803 906	19.87-	02	19.87-	1	GLOB UNIF	WV 0 2
2653	LOAD Z	803 906	19.87-	03	19.87-	03	GLOB UNIF	WV 0 2
2654	LOAD X	803 906	39.73-	1	19.87-	1	GLOB UNIF	WV 0 2
2655	LOAD Y	803 906	39.73-	1	19.87-	1	GLOB UNIF	WV 0 2
2656	LOAD Z	803 906	39.73-	03	19.87-	03	GLOB UNIF	WV 0 2
2657	LOAD X	806 901	0.00-	04	19.87-	04	GLOB UNIF	WV 0 2
2658	LOAD Y	806 901	0.00-	1	19.87-	02	GLOB UNIF	WV 0 2
2659	LOAD Z	806 901	0.00-	02	19.87-	1	GLOB UNIF	WV 0 2
2660	LOAD X	806 901	19.87-	04	19.87-	04	GLOB UNIF	WV 0 2
2661	LOAD Y	806 901	19.87-	02	19.87-	03	GLOB UNIF	WV 0 2
2662	LOAD Z	806 901	19.87-	1	14.45		GLOB UNIF	WV 0 2
2663	LOAD X	806 901	39.74-	04	19.87-	04	GLOB UNIF	WV 0 2
2664	LOAD Y	806 901	39.74-	03	19.87-	03	GLOB UNIF	WV 0 2
2665	LOAD Z	806 901	39.74		19.87	1	GLOB UNIF	WV 0 2
2666	LOAD Y	901 902	0.00-	03	27.42-	03	GLOB UNIF	WV 0 2
2667	LOAD Y	902 903	0.00-	03	27.42-	03	GLOB UNIF	WV 0 2
2668	LOAD Z	905 906	0.00		13.71-	1	GLOB UNIF	WV 0 2
2669	LOAD Z	905 906	13.71-	1	13.71-	1	GLOB UNIF	WV 0 2
2670	LOAD X	901 904	0.00-	03	27.41-	02	GLOB UNIF	WV 0 2
2671	LOAD Y	901 904	0.00-	1	27.41-	1	GLOB UNIF	WV 0 2
2672	LOAD Z	901 904	0.00		27.41-	1	GLOB UNIF	WV 0 2
2673	LOAD X	904 906	0.00-	02	13.71-	02	GLOB UNIF	WV 0 2
2674	LOAD Y	904 906	0.00-	1	13.71-	1	GLOB UNIF	WV 0 2
2675	LOAD Z	904 906	0.00-	1	13.71-	1	GLOB UNIF	WV 0 2
2676	LOAD X	904 906	13.71-	02	13.71-	02	GLOB UNIF	WV 0 2
2677	LOAD Y	904 906	13.71-	1	13.71-	1	GLOB UNIF	WV 0 2
2678	LOAD Z	904 906	13.71-	1	13.71-	1	GLOB UNIF	WV 0 2
2679	LOAD Z	902 904	0.00		27.41-	1	GLOB UNIF	WV 0 2
2680	LOAD X	902 905	0.00-	02	27.41-	02	GLOB UNIF	WV 0 2
2681	LOAD Y	902 905	0.00-	1	27.41-	1	GLOB UNIF	WV 0 2
2682	LOAD Y	904 905	0.00-	02	27.42-	02	GLOB UNIF	WV 0 2
2683	LOAD Z	904 905	0.00-	1	27.42		GLOB UNIF	WV 0 2
2684	LOAD X	9011002	0.00-	1	21.11-	1	GLOB UNIF	WV 0 2
2685	LOAD Y	9011002	0.00-	04	21.11-	03	GLOB UNIF	WV 0 2
2686	LOAD Z	9011002	0.00	1	21.11	1	GLOB UNIF	WV 0 2
2687	LOAD X	9011002	21.11-	1	21.11-	1	GLOB UNIF	WV 0 2
2688	LOAD Y	9011002	21.11-	03	21.11-	04	GLOB UNIF	WV 0 2
2689	LOAD Z	9011002	21.11	1	21.11	1	GLOB UNIF	WV 0 2
2690	LOAD X	9031002	0.00-	1	42.23-	1	GLOB UNIF	WV 0 2
2691	LOAD Y	9031002	0.00-	04	42.23-	04	GLOB UNIF	WV 0 2
2692	LOAD Z	9031002	0.00-	1	42.23-	1	GLOB UNIF	WV 0 2
2693	LOAD X	9031005	0.00-	1	42.23-	1	GLOB UNIF	WV 0 2
2694	LOAD Y	9031005	0.00-	02	42.23-	02	GLOB UNIF	WV 0 2
2695	LOAD Z	9031005	0.00-	02	42.23-	02	GLOB UNIF	WV 0 2

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2696	LOAD X	9061005	0.00		14.07-	1	GLOB UNIF	WV 0 2
2697	LOAD Y	9061005	0.00-	1	14.07-	02	GLOB UNIF	WV 0 2
2698	LOAD Z	9061005	0.00	1	14.07	02	GLOB UNIF	WV 0 2
2699	LOAD X	9061005	14.07-	1	14.07-	1	GLOB UNIF	WV 0 2
2700	LOAD Y	9061005	14.07-	02	14.07-	02	GLOB UNIF	WV 0 2
2701	LOAD Z	9061005	14.07	02	14.07	02	GLOB UNIF	WV 0 2
2702	LOAD X	9061005	28.15-	1	14.07-	1	GLOB UNIF	WV 0 2
2703	LOAD Y	9061005	28.15-	02	14.07-	02	GLOB UNIF	WV 0 2
2704	LOAD Z	9061005	28.15	02	14.07	02	GLOB UNIF	WV 0 2
2705	LOAD X	9011004	0.00-	03	42.23-	03	GLOB UNIF	WV 0 2
2706	LOAD Y	9011004	0.00-	03	42.23-	03	GLOB UNIF	WV 0 2
2707	LOAD Z	9011004	0.00-	1	42.23-	1	GLOB UNIF	WV 0 2
2708	LOAD X	9061004	0.00-	02	14.07-	02	GLOB UNIF	WV 0 2
2709	LOAD Y	9061004	0.00-	02	14.07-	02	GLOB UNIF	WV 0 2
2710	LOAD X	9061004	14.07-	02	14.07-	02	GLOB UNIF	WV 0 2
2711	LOAD Y	9061004	14.07-	02	14.07-	03	GLOB UNIF	WV 0 2
2712	LOAD Z	9061004	14.07		14.07	1	GLOB UNIF	WV 0 2
2713	LOAD X	9061004	28.15-	02	14.07-	03	GLOB UNIF	WV 0 2
2714	LOAD Y	9061004	28.15-	03	14.07-	03	GLOB UNIF	WV 0 2
2715	LOAD Z	9061004	28.15	1	14.07	1	GLOB UNIF	WV 0 2
2716	LOAD Y	10011002	0.00-	04	32.04-	05	GLOB UNIF	WV 0 2
2717	LOAD Y	10021003	0.00-	05	32.04-	05	GLOB UNIF	WV 0 2
2718	LOAD X	10011004	0.00-	04	32.04-	04	GLOB UNIF	WV 0 2
2719	LOAD Y	10011004	0.00-	02	32.04-	02	GLOB UNIF	WV 0 2
2720	LOAD X	10041006	0.00-	04	32.04-	04	GLOB UNIF	WV 0 2
2721	LOAD Y	10041006	0.00-	02	32.04-	02	GLOB UNIF	WV 0 2
2722	LOAD X	10021005	0.00-	02	32.04-	02	GLOB UNIF	WV 0 2
2723	LOAD Y	10021005	0.00-	1	32.04-	1	GLOB UNIF	WV 0 2
2724	LOAD Y	10041005	0.00-	02	32.04-	02	GLOB UNIF	WV 0 2
2725	LOAD X	606 626	4.12-	10	2.59-	10	GLOB UNIF	WV 0 2
2726	LOAD Y	606 626	4.12-	15	2.59-	15	GLOB UNIF	WV 0 2
2727	LOAD Z	606 626	4.12-	08	2.59-	07	GLOB UNIF	WV 0 2
2728	LOAD X	621 651	.71-	21	5.37-	20	GLOB UNIF	WV 0 2
2729	LOAD Y	621 651	.71-	32	5.37-	31	GLOB UNIF	WV 0 2
2730	LOAD X	623 653	3.38-	15	2.71-	15	GLOB UNIF	WV 0 2
2731	LOAD Y	623 653	3.38-	28	2.71-	28	GLOB UNIF	WV 0 2
2732	LOAD Z	623 653	3.38-	04	2.71-	04	GLOB UNIF	WV 0 2
2733	LOAD X	626 656	0.00-	21	6.08-	20	GLOB UNIF	WV 0 2
2734	LOAD Y	626 656	0.00-	35	6.08-	33	GLOB UNIF	WV 0 2
2735	LOAD Z	626 656	0.00	08	6.08	05	GLOB UNIF	WV 0 2
2736	LOAD X	651 701	0.00-	17	7.10-	16	GLOB UNIF	WV 0 2
2737	LOAD Y	651 701	0.00-	33	7.10-	31	GLOB UNIF	WV 0 2
2738	LOAD X	656 706	0.00-	21	7.10-	19	GLOB UNIF	WV 0 2
2739	LOAD Y	656 706	0.00-	34	7.10-	32	GLOB UNIF	WV 0 2
2740	LOAD Z	656 706	0.00-	08	7.10-	05	GLOB UNIF	WV 0 2
2741	LOAD X	653 703	0.00-	18	7.10-	17	GLOB UNIF	WV 0 2
2742	LOAD Y	653 703	0.00-	29	7.10-	27	GLOB UNIF	WV 0 2
2743	LOAD Z	653 703	0.00	05	7.10	05	GLOB UNIF	WV 0 2
2744	LOAD X	701 801	0.00-	16	14.19-	14	GLOB UNIF	WV 0 2

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                 1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

   2745  LOAD Y  701 801    0.00-   30  14.19-   27                GLOB UNIF     WV 0 2
   2746  LOAD X  701 801   14.19-   14  14.19-   13                GLOB UNIF     WV 0 2
   2747  LOAD Y  701 801   14.19-   27  14.19-   25                GLOB UNIF     WV 0 2
   2748  LOAD X  703 803    0.00-   16  14.19-   14                GLOB UNIF     WV 0 2
   2749  LOAD Y  703 803    0.00-   26  14.19-   24                GLOB UNIF     WV 0 2
   2750  LOAD Z  703 803    0.00    04  14.19    04                GLOB UNIF     WV 0 2
   2751  LOAD X  703 803   14.19-   14  14.19-   13                GLOB UNIF     WV 0 2
   2752  LOAD Y  703 803   14.19-   24  14.19-   22                GLOB UNIF     WV 0 2
   2753  LOAD Z  703 803   14.19    04  14.19    04                GLOB UNIF     WV 0 2
   2754  LOAD X  706 806    0.00-   19  14.19-   17                GLOB UNIF     WV 0 2
   2755  LOAD Y  706 806    0.00-   31  14.19-   28                GLOB UNIF     WV 0 2
   2756  LOAD Z  706 806    0.00-   05  14.19-   05                GLOB UNIF     WV 0 2
   2757  LOAD X  706 806   14.19-   17  14.19-   15                GLOB UNIF     WV 0 2
   2758  LOAD Y  706 806   14.19-   28  14.19-   25                GLOB UNIF     WV 0 2
   2759  LOAD Z  706 806   14.19-   05  14.19-   04                GLOB UNIF     WV 0 2
   2760  LOAD X  801 901    0.00-   13  16.22-   13                GLOB UNIF     WV 0 2
   2761  LOAD Y  801 901    0.00-   25  16.22-   23                GLOB UNIF     WV 0 2
   2762  LOAD X  801 901   16.22-   13  16.22-   12                GLOB UNIF     WV 0 2
   2763  LOAD Y  801 901   16.22-   23  16.22-   22                GLOB UNIF     WV 0 2
   2764  LOAD X  803 903    0.00-   13  16.22-   12                GLOB UNIF     WV 0 2
   2765  LOAD Y  803 903    0.00-   22  16.22-   20                GLOB UNIF     WV 0 2
   2766  LOAD Z  803 903    0.00    04  16.22    03                GLOB UNIF     WV 0 2
   2767  LOAD X  803 903   16.22-   12  16.22-   11                GLOB UNIF     WV 0 2
   2768  LOAD Y  803 903   16.22-   20  16.22-   19                GLOB UNIF     WV 0 2
   2769  LOAD Z  803 903   16.22    03  16.22    03                GLOB UNIF     WV 0 2
   2770  LOAD X  806 906    0.00-   15  16.22-   14                GLOB UNIF     WV 0 2
   2771  LOAD Y  806 906    0.00-   25  16.22-   23                GLOB UNIF     WV 0 2
   2772  LOAD Z  806 906    0.00-   04  16.22-   04                GLOB UNIF     WV 0 2
   2773  LOAD X  806 906   16.22-   14  16.22-   13                GLOB UNIF     WV 0 2
   2774  LOAD Y  806 906   16.22-   23  16.22-   21                GLOB UNIF     WV 0 2
   2775  LOAD Z  806 906   16.22-   04  16.22-   04                GLOB UNIF     WV 0 2
   2776  LOAD X  9011001    0.00-   12  32.44-   12                GLOB UNIF     WV 0 2
   2777  LOAD Y  9011001    0.00-   22  32.44-   21                GLOB UNIF     WV 0 2
   2778  LOAD X  9031003    0.00-   11  32.44-   11                GLOB UNIF     WV 0 2
   2779  LOAD Y  9031003    0.00-   19  32.44-   20                GLOB UNIF     WV 0 2
   2780  LOAD Z  9031003    0.00    03  32.44    03                GLOB UNIF     WV 0 2
   2781  LOAD X  9061006    0.00-   13  32.44-   12                GLOB UNIF     WV 0 2
   2782  LOAD Y  9061006    0.00-   21  32.44-   21                GLOB UNIF     WV 0 2
   2783  LOAD Z  9061006    0.00-   04  32.44-   03                GLOB UNIF     WV 0 2
   2784  END
```

PILE JOINT NO. 1010

S T R A N - P-Y D A T A

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

DEPTH (FT) =	0.00							
FORCE (K/IN)	0.000	0.000						
DEFL (IN)	0.000	20.000						
DEPTH (FT) =	8.00							
FORCE (K/IN)	0.000	.107	.129	.153	.169	.188	.237	.237
DEFL (IN)	0.000	.050	.120	.270	.430	.700	1.580	20.000
DEPTH (FT) =	14.00							
FORCE (K/IN)	0.000	.366	.611	.906	1.136	1.440	2.274	2.274
DEFL (IN)	0.000	.036	.110	.260	.420	.700	1.580	20.000
DEPTH (FT) =	24.00							
FORCE (K/IN)	0.000	1.244	1.681	2.347	2.895	3.644	5.831	5.831
DEFL (IN)	0.000	.070	.140	.280	.430	.700	1.580	20.000
DEPTH (FT) =	34.00							
FORCE (K/IN)	0.000	3.021	3.693	4.742	5.659	6.950	11.120	11.120
DEFL (IN)	0.000	.120	.190	.320	.460	.700	1.580	20.000
DEPTH (FT) =	48.00							
FORCE (K/IN)	0.000	7.634	8.468	9.913	11.273	13.280	21.248	21.248
DEFL (IN)	0.000	.220	.270	.380	.500	.700	1.580	20.000
DEPTH (FT) =	68.00							
FORCE (K/IN)	0.000	10.718	11.997	14.043	15.970	18.814	30.102	30.102
DEFL (IN)	0.000	.220	.270	.380	.500	.700	1.580	20.000
DEPTH (FT) =	102.00							
FORCE (K/IN)	0.000	16.223	17.995	21.064	23.954	28.221	45.153	45.153
DEFL (IN)	0.000	.220	.270	.380	.500	.700	1.580	20.000
DEPTH (FT) =	102.10							
FORCE (K/IN)	0.000	.967	1.313	1.718	2.418	3.281	3.281	
DEFL (IN)	0.000	.075	.190	.470	1.180	2.940	20.000	
DEPTH (FT) =	136.00							
FORCE (K/IN)	0.000	.967	1.313	1.718	2.418	3.281	3.281	
DEFL (IN)	0.000	.075	.190	.470	1.180	2.940	20.000	
DEPTH (FT) =	200.00							
FORCE (K/IN)	0.000	.967	1.313	1.718	2.418	3.281	3.281	
DEFL (IN)	0.000	.075	.190	.470	1.180	2.940	20.000	

PILE JOINT NO. 1011

S T R A N - P-Y D A T A

PAGE 2
DATE 10/05/74

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

DEPTH (FT) =	0.00							
FORCE (K/IN)	0.000	0.000						
DEFL (IN)	0.000	20.000						
DEPTH (FT) =	8.00							
FORCE (K/IN)	0.000	.107	.129	.153	.169	.188	.237	.237
DEFL (IN)	0.000	.050	.120	.270	.430	.700	1.580	20.000
DEPTH (FT) =	14.00							
FORCE (K/IN)	0.000	.366	.611	.906	1.136	1.440	2.274	2.274
DEFL (IN)	0.000	.030	.110	.260	.420	.700	1.580	20.000
DEPTH (FT) =	24.00							
FORCE (K/IN)	0.000	1.244	1.661	2.347	2.895	3.644	5.831	5.831
DEFL (IN)	0.000	.070	.140	.280	.430	.700	1.580	20.000
DEPTH (FT) =	34.00							
FORCE (K/IN)	0.000	3.021	3.693	4.742	5.659	6.950	11.120	11.120
DEFL (IN)	0.000	.120	.190	.320	.460	.700	1.580	20.000
DEPTH (FT) =	45.00							
FORCE (K/IN)	0.000	7.654	8.468	9.913	11.275	15.280	21.248	21.248
DEFL (IN)	0.000	.220	.270	.380	.500	.700	1.580	20.000
DEPTH (FT) =	68.00							
FORCE (K/IN)	0.000	10.718	11.997	14.043	15.970	18.614	30.102	30.102
DEFL (IN)	0.000	.220	.270	.380	.500	.700	1.580	20.000
DEPTH (FT) =	102.00							
FORCE (K/IN)	0.000	16.223	17.995	21.064	23.954	28.221	45.153	45.153
DEFL (IN)	0.000	.220	.270	.380	.500	.700	1.580	20.000
DEPTH (FT) =	102.10							
FORCE (K/IN)	0.000	.967	1.313	1.718	2.418	3.281	3.281	
DEFL (IN)	0.000	.075	.190	.470	1.180	2.940	20.000	
DEPTH (FT) =	136.00							
FORCE (K/IN)	0.000	.967	1.313	1.718	2.418	3.281	3.281	
DEFL (IN)	0.000	.075	.190	.470	1.180	2.940	20.000	
DEPTH (FT) =	200.00							
FORCE (K/IN)	0.000	.967	1.313	1.718	2.418	3.281	3.281	
DEFL (IN)	0.000	.075	.190	.470	1.180	2.940	20.000	

PILE JOINT NO. 1012

S T R A N - P-Y D A T A

PAGE 3
DATE 10/05/76

U.S. NAVY - ACMN PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

DEPTH (FT) =	0.00							
FORCE (K/IN)	0.000	0.000						
DEFL (IN)	0.000	20.000						
DEPTH (FT) =	8.00							
FORCE (K/IN)	0.000	.107	.129	.153	.169	.188	.237	.237
DEFL (IN)	0.000	.050	.120	.270	.430	.700	1.580	20.000
DEPTH (FT) =	14.00							
FORCE (K/IN)	0.000	.366	.611	.906	1.136	1.440	2.274	2.274
DEFL (IN)	0.000	.036	.110	.260	.420	.700	1.580	20.000
DEPTH (FT) =	24.00							
FORCE (K/IN)	0.000	1.244	1.681	2.347	2.895	3.644	5.831	5.831
DEFL (IN)	0.000	.070	.140	.280	.430	.700	1.580	20.000
DEPTH (FT) =	34.00							
FORCE (K/IN)	0.000	3.021	3.693	4.742	5.659	6.950	11.120	11.120
DEFL (IN)	0.000	.120	.190	.320	.460	.700	1.580	20.000
DEPTH (FT) =	48.00							
FORCE (K/IN)	0.000	7.634	8.468	9.913	11.273	13.280	21.248	21.248
DEFL (IN)	0.000	.220	.270	.380	.500	.700	1.580	20.000
DEPTH (FT) =	68.00							
FORCE (K/IN)	0.000	10.718	11.997	14.043	15.970	18.814	30.102	30.102
DEFL (IN)	0.000	.220	.270	.380	.500	.700	1.580	20.000
DEPTH (FT) =	102.00							
FORCE (K/IN)	0.000	16.223	17.995	21.064	23.954	28.221	45.153	45.153
DEFL (IN)	0.000	.220	.270	.380	.500	.700	1.580	20.000
DEPTH (FT) =	102.10							
FORCE (K/IN)	0.000	.967	1.313	1.718	2.418	3.281	3.281	
DEFL (IN)	0.000	.075	.190	.470	1.180	2.940	20.000	
DEPTH (FT) =	136.00							
FORCE (K/IN)	0.000	.967	1.313	1.718	2.418	3.281	3.281	
DEFL (IN)	0.000	.075	.190	.470	1.180	2.940	20.000	
DEPTH (FT) =	200.00							
FORCE (K/IN)	0.000	.967	1.313	1.718	2.418	3.281	3.281	
DEFL (IN)	0.000	.075	.190	.470	1.180	2.940	20.000	

LOAD CONDITION NO. 1
CYCLE NO. 1

S T R A N - N O N L I N E A R   S U P P O R T   I T E R A T I O N S

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PERCENT DIFFERENCE
1010	1	-7.0845	-.01753	-.01419		
1010	2	.3211	-.00047	-.00038		
1010	3	1.1841	.00020	.00020		
1010	4	32.1115	.00000	.00000		
1010	5	708.4492	-.00017	-.00003		
1010	6	-5.5870	-.00001	-.00001		
1011	1	3.6140	.00770	.00723		
1011	2	-6.0928	-.01302	-.01223		
1011	3	40.3569	.00674	.00674		
1011	4	-609.2828	.00013	.00003		
1011	5	-361.3982	.00008	.00002		
1011	6	8.4954	.00001	.00001		
1012	1	2.5359	.00824	.00660		
1012	2	5.8193	.01345	.01076		
1012	3	-41.2150	-.00688	-.00688		
1012	4	581.9330	-.00013	-.00002		
1012	5	-253.5843	.00008	.00002		
1012	6	9.4729	.00001	.00001		

LOAD CONDITION NO. 1
CYCLE NO. 2

S T R A N - N O N L I N E A R   S U P P O R T   I T E R A T I O N S

U.S. NAVY - ACMN PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS PERCENT DIFFERENCE
1010	1	-7.4078	-.02585	-.02584		
1010	2	.0436	-.00057	-.00082	.0000	.0000
1010	3	1.2325	.00021	.00021		
1010	4	35.3892	.00000	.00000		
1010	5	224.3465	-.00012	-.00012	.0000	.0000
1010	6	-5.5698	-.00001	-.00001		
1011	1	3.5365	.01157	.01153		
1011	2	-5.9906	-.01988	-.01991	.0000	.0000
1011	3	38.5490	.00643	.00643		
1011	4	-229.0070	.00009	.00009		
1011	5	-142.7947	.00005	.00005	.0000	.0000
1011	6	8.8691	.00001	.00001		
1012	1	2.9238	.01150	.01188		
1012	2	5.9572	.02041	.02019	.0000	.0002
1012	3	-39.4491	-.00656	-.00658		
1012	4	198.7521	-.00009	-.00009		
1012	5	-27.9364	.00006	.00006	.0000	.0002
1012	6	9.7974	.00001	.00001		

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS PERCENT DIFFERENCE
1010	1	5.5649	.01929	.01928		
1010	2	-.1009	.00017	-.00035		
1010	3	-.7571	-.00013	-.00013		
1010	4	-27.6649	-.00000	.00000		
1010	5	-178.3200	.00009	.00009		
1010	6	4.1025	.00000	.00000		
1011	1	-2.5973	-.00844	-.00842		
1011	2	4.5621	.01500	.01503		
1011	3	-28.2117	-.00471	-.00471		
1011	4	180.9160	-.00007	-.00007		
1011	5	107.7863	-.00004	-.00004		
1011	6	-5.1591	-.00001	-.00001		
1012	1	-2.2659	-.00880	-.00908		
1012	2	-4.4823	-.01519	-.01500		
1012	3	27.9916	.00467	.00467		
1012	4	-157.3005	.00007	.00007		
1012	5	26.8194	-.00004	-.00004		
1012	6	-6.8068	-.00001	-.00001		

LOAD CONDITION NO. 2
CYCLE NO. 2

S I H A N - N O N L I N E A R   S U P P O R T   I T E R A T I O N S

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PERCENT DIFFERENCE
1010	1	5.5849	.01929	.01928		
1010	2	-.1011	.00017	-.00035	.0000	.0004
1010	3	-.7570	-.00013	-.00013		
1010	4	-27.6809	-.00000	.00000		
1010	5	-178.3299	.00009	.00009	.0000	.0010
1010	6	4.1020	.00000	.00000		
1011	1	-2.5955	-.00844	-.00841		
1011	2	4.5590	.01500	.01502	.0000	.0000
1011	3	-28.2112	-.00471	-.00471		
1011	4	181.0346	-.00007	-.00007		
1011	5	107.8538	-.00004	-.00004	.0000	.0000
1011	6	-5.1593	-.00001	-.00001		
1012	1	-2.2676	-.00880	-.00909		
1012	2	-4.4854	-.01519	-.01502	.0000	.0002
1012	3	27.9921	.00467	.00467		
1012	4	-157.1762	.00007	.00007		
1012	5	26.7315	-.00004	-.00004	.0000	.0002
1012	6	-6.8072	-.00001	-.00001		

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PERCENT DIFFERENCE
1010	1	-22.4209	-.07745	-.07917		
1010	2	-.0867	-.00224	-.00298		
1010	3	4.1732	.00070	.00070		
1010	4	68.6457	.00002	.00001		
1010	5	716.2845	-.00036	-.00037		
1010	6	-12.3101	-.00001	-.00001		
1011	1	10.9868	.03570	.03594		
1011	2	-18.2455	-.05968	-.06052		
1011	3	114.2753	.01907	.01907		
1011	4	-731.7468	.00027	.00027		
1011	5	-457.5946	.00016	.00016		
1011	6	26.3678	.00003	.00003		
1012	1	9.0081	.03458	.03627		
1012	2	18.4341	.06212	.06242		
1012	3	-116.9716	-.01952	-.01952		
1012	4	660.7744	-.00028	-.00029		
1012	5	-123.9924	.00017	.00017		
1012	6	30.7492	.00003	.00003		

S T R A N - N O N L I N E A R   S U P P O R T   I T E R A T I O N S

LOAD CONDITION NO. 3
CYCLE NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS PERCENT DIFFERENCE
1010	1	-22.3472	-.07854	-.07820		
1010	2	-.0635	-.00227	-.00293	.0001	.0015
1010	3	4.1748	.00070	.00070		
1010	4	88.2945	.00002	.00001		
1010	5	741.4414	-.00036	-.00036	.0000	.0015
1010	6	-12.1606	-.00001	-.00001		
1011	1	10.9753	.03569	.03580		
1011	2	-18.3285	-.06045	-.06049	.0000	.0001
1011	3	114.3693	.01909	.01909		
1011	4	-748.5696	.00027	.00027		
1011	5	-462.4899	.00016	.00016	.0000	.0001
1011	6	26.5352	.00003	.00003		
1012	1	8.9525	.03477	.03590		
1012	2	18.4469	.06272	.06202	.0000	.0007
1012	3	-117.0560	-.01954	-.01954		
1012	4	660.5196	-.00028	-.00029		
1012	5	-129.3601	.00017	.00017	.0000	.0007
1012	6	30.9159	.00003	.00003		

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PERCENT DIFFERENCE
1010	1	15.4015	.05236	.05119		
1010	2	.0040	.00113	.00149		
1010	3	-5.2592	-.00088	-.00088		
1010	4	-51.2115	-.00001	-.00001		
1010	5	-566.0442	.00024	.00023		
1010	6	10.6834	.00001	.00001		
1011	1	-7.7412	-.02472	-.02458		
1011	2	13.1442	.04154	.04112		
1011	3	-68.0905	-.01137	-.01137		
1011	4	621.1908	-.00018	-.00018		
1011	5	353.7946	-.00011	-.00011		
1011	6	-14.3933	-.00001	-.00001		
1012	1	-6.4731	-.02386	-.02432		
1012	2	-13.3965	-.04328	-.04210		
1012	3	63.5880	.01061	.01061		
1012	4	-599.4516	.00019	.00019		
1012	5	152.8299	-.00011	-.00011		
1012	6	-12.7797	-.00001	-.00001		

LOAD CONDITION NO. 4
CYCLE NO. 2

S T R A N - N O N L I N E A R   S U P P O R T   I T E R A T I O N S

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS PERCENT DIFFERENCE
1010	1	15.4495	.05177	.05176		
1010	2	.0044	.00111	.00151	.0000	.0000
1010	3	-5.2580	-.00088	-.00088		
1010	4	-51.4716	-.00001	-.00001		
1010	5	-508.9125	.00023	.00023	.0000	.0000
1010	6	10.7799	.00001	.00001		
1011	1	-7.7458	-.02459	-.02466		
1011	2	13.0842	.04116	.04112	.0000	.0000
1011	3	-68.0253	-.01135	-.01135		
1011	4	609.7442	-.00018	-.00018		
1011	5	350.4383	-.00011	-.00011	.0000	.0000
1011	6	-14.2847	-.00001	-.00001		
1012	1	-6.5121	-.02373	-.02458		
1012	2	-13.3952	-.04267	-.04238	.0000	.0002
1012	3	63.5312	.01060	.01060		
1012	4	-505.6641	.00019	.00019		
1012	5	148.8055	-.00011	-.00011	.0000	.0002
1012	6	-12.6716	-.00001	-.00001		

LOAD CONDITION NO. 5
CYCLE NO. 1

STRAN-NONLINEAR SUPPORT ITERATIONS

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PERCENT DIFFERENCE
1010	1	-48.2711	-.16879	-.22420		
1010	2	.6366	-.00279	-.00596		
1010	3	5.3451	.00089	.00089		
1010	4	254.6397	.00003	.00003		
1010	5	1446.5043	-.00079	-.00100		
1010	6	-26.6620	-.00003	-.00005		
1011	1	22.7969	.07514	.09536		
1011	2	-38.9312	-.13005	-.16588		
1011	3	267.1860	.04460	.04460		
1011	4	-1458.3180	.00059	.00072		
1011	5	-401.5542	.00034	.00041		
1011	6	61.9795	.00006	.00006		
1012	1	19.6917	.07642	.10115		
1012	2	38.3972	.13231	.16862		
1012	3	-276.5864	-.04617	-.04617		
1012	4	1235.6586	-.00061	-.00076		
1012	5	-230.6060	.00038	.00046		
1012	6	82.8500	.00009	.00009		

LOAD CONDITION NO. 5
CYCLE NO. 2

STRAN-NONLINEAR SUPPORT ITERATIONS

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS PERCENT DIFFERENCE
1010	1	-47.0697	-.20008	-.19314		
1010	2	.6870	-.00305	-.00464	.0069	.0357
1010	3	5.3684	.00090	.00090		
1010	4	262.2395	.00003	.00002		
1010	5	2131.0307	-.00085	-.00081	.0000	.0399
1010	6	-24.9014	-.00003	-.00003		
1011	1	22.3452	.08703	.08503		
1011	2	-39.6467	-.15442	-.15088	.0041	.0234
1011	3	269.9106	.04505	.04505		
1011	4	-2058.3243	.00064	.00062		
1011	5	-1159.9076	.00036	.00035	.0000	.0305
1011	6	64.5618	.00007	.00007		
1012	1	19.0270	.08809	.08820		
1012	2	38.8356	.15696	.15131	.0048	.0277
1012	3	-279.2965	-.04662	-.04662		
1012	4	1866.1356	-.00066	-.00065		
1012	5	-473.4463	.00040	.00038	.0000	.0322
1012	6	65.4624	.00009	.00009		

LOAD CONDITION NO. 6
CYCLE NO. 1

S T R A N - N O N L I N E A R   S U P P O R T   I T E R A T I O N S

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PERCENT DIFFERENCE
1010	1	23.1543	.09319	.06998		
1010	2	-.6524	-.00038	.00026		
1010	3	-6.6858	-.00112	-.00112		
1010	4	-122.3092	-.00000	-.00000		
1010	5	-1250.6156	.00038	.00029		
1010	6	16.9012	.00002	.00002		
1011	1	-11.1818	-.04166	-.03283		
1011	2	20.9425	.07576	.05908		
1011	3	-99.3682	-.01659	-.01659		
1011	4	1320.6654	-.00030	-.00023		
1011	5	656.7885	-.00017	-.00013		
1011	6	-19.3559	-.00002	-.00002		
1012	1	-10.3646	-.04369	-.03483		
1012	2	-20.6322	-.07646	-.05847		
1012	3	89.9658	.01502	.01502		
1012	4	-1264.4617	.00030	.00024		
1012	5	426.9785	-.00019	-.00014		
1012	6	-20.7793	-.00002	-.00002		

LOAD CONDITION NO. 6
CYCLE NO. 2

STRAN-NONLINEAR SUPPORT ITERATIONS

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS PERCENT DIFFERENCE
1010	1	23.6276	.07869	.07987		
1010	2	-.6705	-.00030	.00041	.0010	.0124
1010	3	-6.6880	-.00112	-.00112		
1010	4	-116.4143	-.00001	-.00000		
1010	5	-928.0081	.00035	.00036	.0000	.0131
1010	6	17.5239	.00002	.00002		
1011	1	-11.3604	-.03607	-.03653		
1011	2	20.6627	.06430	.06459	.0005	.0065
1011	3	-98.0514	-.01637	-.01637		
1011	4	1027.4579	-.00027	-.00027		
1011	5	531.4817	-.00016	-.00016	.0000	.0076
1011	6	-18.3631	-.00002	-.00002		
1012	1	-10.6284	-.03792	-.03945		
1012	2	-20.5326	-.06503	-.06476	.0005	.0073
1012	3	88.6843	.01480	.01480		
1012	4	-959.8952	.00028	.00029		
1012	5	297.9264	-.00018	-.00017	.0000	.0082
1012	6	-19.7530	-.00002	-.00002		

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS PERCENT DIFFERENCE
1010	1	-115.4679	-.40842	-.74657		
1010	2	1.4525	-.00682	-.01978		
1010	3	12.2095	.00204	.00204		
1010	4	600.6295	.00007	.00008		
1010	5	3469.3738	-.00190	-.00307		
1010	6	-64.5301	-.00007	-.00007		
1011	1	55.4445	.18515	.32282		
1011	2	-93.5347	-.31559	-.55236		
1011	3	660.1000	.11018	.11018		
1011	4	-3509.2497	.00142	.00223		
1011	5	-2170.0545	.00083	.00130		
1011	6	171.6652	.00018	.00018		
1012	1	48.1010	.18716	.34690		
1012	2	92.1699	.32070	.57379		
1012	3	-666.9934	-.11467	-.11467		
1012	4	2963.7591	-.00148	-.00240		
1012	5	-621.7436	.00093	.00145		
1012	6	172.4537	.00018	.00018		

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PERCENT DIFFERENCE
1010	1	-110.5231	-.56247	-.56881		
1010	2	1.4257	-.00633	-.01288	.0136	.0239
1010	3	12.3666	.00206	.00206		
1010	4	599.7543	.00007	.00005		
1010	5	6660.1904	-.00217	-.00213	.0000	.0207
1010	6	-57.4306	-.00006	-.00006		
1011	1	53.3914	.25567	.26120		
1011	2	-96.1442	-.45469	-.46253	.0095	.0183
1011	3	672.8813	.11231	.11231		
1011	4	-6339.5365	.00165	.00168		
1011	5	-3410.7216	.00094	.00095	.0000	.0196
1011	6	163.5101	.00019	.00019		
1012	1	45.5436	.25564	.26956		
1012	2	93.7036	.46135	.46803	.0127	.0240
1012	3	-699.7620	-.11660	-.11680		
1012	4	5972.8340	-.00172	-.00178		
1012	5	-1850.0601	.00105	.00102	.0000	.0233
1012	6	184.5346	.00019	.00019		

LOAD CONDITION NO. 7
CYCLE NO. 2

STRAN-NONLINEAR SUPPORT ITERATIONS

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PERCENT DIFFERENCE
1010	1	-116.4849	-.54749	-.61736		
1010	2	1.3536	-.00812	-.01476	.0700	.1278
1010	3	12.4514	.00208	.00208		
1010	4	533.4071	.00007	.00006		
1010	5	6900.8182	-.00222	-.00231	.0001	.0424
1010	6	-78.1782	-.00008	-.00008		
1011	1	56.3588	.27433	.25769		
1011	2	-91.5110	-.45116	-.42562	.0305	.0612
1011	3	672.9946	.11233	.11233		
1011	4	-6249.1602	.00165	.00152		
1011	5	-3993.8022	.00099	.00092	.0001	.0804
1011	6	162.6746	.00017	.00017		
1012	1	48.0605	.27481	.26062		
1012	2	88.2063	.45804	.42266	.0376	.0757
1012	3	-699.7898	-.11681	-.11681		
1012	4	5806.0620	-.00171	-.00158		
1012	5	-2427.7651	.00108	.00098	.0002	.0894
1012	6	163.9564	.00017	.00017		

S T R A N - N O N L I N E A R   S U P P O R T   I T E R A T I O N S

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PERCENT DIFFERENCE
1010	1	30.7990	.15200	.08439		
1010	2	-.4993	.00032	-.00137		
1010	3	-11.3946	-.00190	-.00190		
1010	4	-125.7349	-.00001	.00000		
1010	5	-2190.2923	.00054	.00031		
1010	6	25.2521	.00003	.00003		
1011	1	-15.5876	-.07044	-.04239		
1011	2	28.7371	.12513	.07421		
1011	3	-129.8285	-.02167	-.02167		
1011	4	2267.9731	-.00043	-.00025		
1011	5	1141.3244	-.00025	-.00014		
1011	6	-23.9449	-.00002	-.00002		
1012	1	-14.1316	-.07124	-.04268		
1012	2	-28.6199	-.12753	-.07321		
1012	3	112.9480	.01885	.01885		
1012	4	-2263.4756	.00044	.00026		
1012	5	842.7118	-.00027	-.00015		
1012	6	-23.6710	-.00002	-.00002		

STRAN-NONLINEAR SUPPORT ITERATIONS

LOAD CONDITION NO. 8
CYCLE NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

NONLINEAR SUPPORT JOINT NO.	DEGREE OF FREEDOM	STRUCTURE ACTIONS AT NONLINEAR SUPPORTS (KIPS,IN-KIPS)	STRUCTURE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE DISPLACEMENTS AT SUPPORTS (IN,RAD)	PILE-STRUCTURE RESULTANT DISPLACEMENTS DIFFERENCE (IN,RAD)	PERCENT DIFFERENCE
1010	1	31.8386	.10733	.11422		
1010	2	-.6049	.00020	-.00217	.0069	.0644
1010	3	-11.3589	-.00190	-.00190		
1010	4	-128.4784	-.00001	.00001		
1010	5	-1339.4151	.00047	.00050	.0000	.0650
1010	6	26.4432	.00003	.00003		
1011	1	-15.9947	-.05154	-.05456		
1011	2	28.1675	.08855	.09279	.0052	.0507
1011	3	-126.3644	-.02109	-.02109		
1011	4	1496.5643	-.00036	-.00039		
1011	5	791.7888	-.00022	-.00023	.0000	.0578
1011	6	-21.5137	-.00002	-.00002		
1012	1	-14.6996	-.05247	-.05730		
1012	2	-28.5471	-.09070	-.09484	.0060	.0575
1012	3	109.5485	.01829	.01829		
1012	4	-1451.0231	.00038	.00041		
1012	5	480.0228	-.00024	-.00025	.0000	.0618
1012	6	-21.1591	-.00002	-.00002		

S T R A N - P I L E   A N A L Y S I S

LOAD CONDITION NO. 1
PILE JOINT NO. 1010

PAGE 1
DATE 10/05/76

U.S. NAVY - ACMH PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.0259	-225.11	68.94	.0000	-.33	137.88	.0000	.00
2.03	.0229	-43.00	70.97	.0000	.57	139.91	.0000	.00
4.06	.0199	129.87	72.99	.0000	1.07	141.93	-.0000	.00
6.08	.0170	290.14	75.02	.0000	1.27	143.96	-.0000	.00
8.11	.0141	434.30	77.05	.0000	1.27	145.99	-.0000	.00
10.14	.0115	560.55	79.08	.0000	1.14	148.02	-.0000	.00
12.17	.0091	654.06	81.10	.0000	.94	150.04	-.0000	.00
14.19	.0069	707.34	83.13	-.0000	.73	152.07	-.0000	.00
16.22	.0051	718.98	85.16	-.0000	.53	154.10	-.0000	.00
18.25	.0035	695.67	87.19	-.0000	.35	156.13	-.0000	.00
20.28	.0022	645.17	89.22	-.0000	.21	158.15	-.0000	.00
22.30	.0012	575.62	91.24	-.0000	.10	160.18	-.0000	-.00
24.33	.0004	494.84	93.27	-.0000	.03	162.21	-.0000	-.00
26.36	-.0001	409.70	95.30	-.0000	-.02	164.24	-.0000	-.00
28.39	-.0005	325.89	97.33	-.0000	-.04	166.26	-.0000	-.00
30.41	-.0007	247.72	99.35	-.0000	-.05	168.29	-.0000	-.00
32.44	-.0007	178.17	101.38	-.0000	-.05	170.32	-.0000	-.00
34.47	-.0007	118.95	103.41	-.0000	-.04	172.35	-.0000	-.00
36.50	-.0007	70.75	105.44	.0000	-.04	174.37	-.0000	-.00
38.52	-.0006	33.32	107.46	.0000	-.03	176.40	-.0000	-.00
40.55	-.0005	5.83	109.49	.0000	-.02	178.43	.0000	-.00
42.58	-.0004	-12.97	111.52	.0000	-.02	180.46	.0000	-.00
44.61	-.0003	-24.53	113.55	.0000	-.01	182.49	.0000	-.00
46.64	-.0002	-30.37	115.57	.0000	-.01	184.51	.0000	-.00
48.66	-.0001	-31.93	117.60	.0000	-.01	186.54	.0000	-.00
50.69	-.0001	-30.51	119.63	.0000	-.00	188.57	.0000	-.00
52.72	-.0000	-27.20	121.66	.0000	-.00	190.60	.0000	-.00
54.75	-.0000	-22.90	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-18.27	125.71	.0000	.00	194.65	.0000	-.00
58.80	.0000	-13.80	127.74	.0000	.00	196.68	.0000	-.00
60.83	.0000	-9.80	129.77	.0000	.00	198.71	.0000	-.00
62.86	.0000	-6.43	131.79	.0000	.00	200.73	.0000	-.00
64.88	.0000	-3.74	133.82	.0000	.00	202.76	.0000	-.00
66.91	.0000	-1.73	135.85	.0000	.00			

S T R A N - P I L E   A N A L Y S I S

LOAD CONDITION NO. 1
PILE JOINT NO. 1011

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.0230	-269.74	68.94	.0000	-.40	137.88	.0000	.00
2.03	.0204	-100.57	70.97	.0000	.43	139.91	.0000	.00
4.06	.0178	62.11	72.99	.0000	.91	141.93	-.0000	.00
6.08	.0153	213.50	75.02	.0000	1.11	143.96	-.0000	.00
8.11	.0128	350.38	77.05	.0000	1.12	145.99	-.0000	.00
10.14	.0104	471.09	79.08	.0000	1.01	148.02	-.0000	.00
12.17	.0083	562.07	81.10	.0000	.85	150.04	-.0000	.00
14.19	.0063	616.39	83.13	-.0000	.66	152.07	-.0000	.00
16.22	.0047	632.57	85.16	-.0000	.48	154.10	-.0000	.00
18.25	.0032	616.51	87.19	-.0000	.32	156.13	-.0000	.00
20.28	.0021	575.16	89.22	-.0000	.20	158.15	-.0000	.00
22.30	.0011	515.85	91.24	-.0000	.10	160.18	-.0000	-.00
24.33	.0004	445.60	93.27	-.0000	.03	162.21	-.0000	-.00
26.36	-.0000	370.73	95.30	-.0000	-.01	164.24	-.0000	-.00
28.39	-.0004	296.43	97.33	-.0000	-.03	166.26	-.0000	-.00
30.41	-.0006	226.67	99.35	-.0000	-.04	168.29	-.0000	-.00
32.44	-.0006	164.26	101.38	-.0000	-.04	170.32	-.0000	-.00
34.47	-.0007	110.84	103.41	-.0000	-.04	172.35	-.0000	-.00
36.50	-.0006	67.13	105.44	.0000	-.03	174.37	-.0000	-.00
38.52	-.0005	32.99	107.46	.0000	-.03	176.40	-.0000	-.00
40.55	-.0005	7.73	109.49	.0000	-.02	178.43	.0000	-.00
42.58	-.0004	-9.71	111.52	.0000	-.02	180.46	.0000	-.00
44.61	-.0003	-20.61	113.55	.0000	-.01	182.49	.0000	-.00
46.64	-.0002	-26.29	115.57	.0000	-.01	184.51	.0000	-.00
48.66	-.0001	-28.06	117.60	.0000	-.01	186.54	.0000	-.00
50.69	-.0001	-27.07	119.63	.0000	-.00	188.57	.0000	-.00
52.72	-.0000	-24.31	121.66	.0000	-.00	190.60	.0000	-.00
54.75	-.0000	-20.59	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-16.53	125.71	.0000	.00	194.65	.0000	-.00
58.80	.0000	-12.57	127.74	.0000	.00	196.68	.0000	-.00
60.83	.0000	-8.99	129.77	.0000	.00	198.71	.0000	-.00
62.86	.0000	-5.95	131.79	.0000	.00	200.73	.0000	-.00
64.88	.0000	-3.53	133.82	.0000	.00	202.76	.0000	-.00
66.91	.0000	-1.69	135.85	.0000	.00			

LOAD CONDITION NO. 1 PAGE 3
PILE JOINT NO. 1012 DATE 10/05/76

S T R A N - P I L E   A N A L Y S I S

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.0234	-185.45	68.94	.0000	-.27	137.88	.0000	.00
2.03	.0207	-24.34	70.97	.0000	.54	139.91	.0000	.00
4.06	.0180	150.21	72.99	.0000	.98	141.93	-.0000	.00
6.08	.0153	273.36	75.02	.0000	1.16	143.96	-.0000	.00
8.11	.0128	401.96	77.05	.0000	1.15	145.99	-.0000	.00
10.14	.0104	514.39	79.08	.0000	1.03	148.02	-.0000	.00
12.17	.0082	597.28	81.10	.0000	.85	150.04	-.0000	.00
14.19	.0062	643.93	83.13	-.0000	.66	152.07	-.0000	.00
16.22	.0045	653.11	85.16	-.0000	.48	154.10	-.0000	.00
18.25	.0031	630.89	87.19	-.0000	.32	156.13	-.0000	.00
20.28	.0020	584.29	89.22	-.0000	.19	158.15	-.0000	.00
22.30	.0010	520.67	91.24	-.0000	.09	160.18	-.0000	-.00
24.33	.0004	447.08	93.27	-.0000	.03	162.21	-.0000	-.00
26.36	-.0001	369.73	95.30	-.0000	-.02	164.24	-.0000	-.00
28.39	-.0004	293.73	97.33	-.0000	-.04	166.26	-.0000	-.00
30.41	-.0006	222.95	99.35	-.0000	-.05	168.29	-.0000	-.00
32.44	-.0007	160.05	101.38	-.0000	-.05	170.32	-.0000	-.00
34.47	-.0007	106.57	103.41	-.0000	-.04	172.35	-.0000	-.00
36.50	-.0006	63.09	105.44	.0000	-.03	174.37	-.0000	-.00
38.52	-.0005	29.38	107.46	.0000	-.03	176.40	-.0000	-.00
40.55	-.0005	4.67	109.49	.0000	-.02	178.43	.0000	-.00
42.58	-.0004	-12.20	111.52	.0000	-.02	180.46	.0000	-.00
44.61	-.0003	-22.53	113.55	.0000	-.01	182.49	.0000	-.00
46.64	-.0002	-27.71	115.57	.0000	-.01	184.51	.0000	-.00
48.66	-.0001	-29.03	117.60	.0000	-.00	186.54	.0000	-.00
50.69	-.0001	-27.67	119.63	.0000	-.00	188.57	.0000	-.00
52.72	-.0000	-24.62	121.66	.0000	-.00	190.60	.0000	-.00
54.75	-.0000	-20.70	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-16.49	125.71	.0000	.00	194.65	.0000	-.00
58.80	.0000	-12.44	127.74	.0000	.00	196.68	.0000	-.00
60.83	.0000	-8.81	129.77	.0000	.00	198.71	.0000	-.00
62.86	.0000	-5.77	131.79	.0000	.00	200.73	.0000	-.00
64.88	.0000	-3.34	133.82	.0000	.00	202.76	.0000	-.00
66.91	.0000	-1.53	135.85	.0000	.00			

S T R A N - P I L E   A N A L Y S I S

LOAD CONDITION NO. 2
PILE JOINT NO. 1010

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DATE 10/05/76

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.0193	-178.80	68.94	.0000	-.26	137.88	.0000	.00
2.03	.0171	-42.89	70.97	.0000	.41	139.91	.0000	.00
4.06	.0149	87.61	72.99	.0000	.79	141.93	-.0000	.00
6.08	.0127	208.70	75.02	.0000	.94	143.96	-.0000	.00
8.11	.0106	317.74	77.05	.0000	.94	145.99	-.0000	.00
10.14	.0086	413.38	79.08	.0000	.85	148.02	-.0000	.00
12.17	.0068	484.48	81.10	.0000	.71	150.04	-.0000	.00
14.19	.0052	525.43	83.13	-.0000	.55	152.07	-.0000	.00
16.22	.0038	535.13	85.16	-.0000	.40	154.10	-.0000	.00
18.25	.0026	518.55	87.19	-.0000	.26	156.13	-.0000	.00
20.28	.0016	481.49	89.22	-.0000	.16	158.15	-.0000	.00
22.30	.0009	430.05	91.24	-.0000	.08	160.18	-.0000	-.00
24.33	.0003	370.07	93.27	-.0000	.02	162.21	-.0000	-.00
26.36	-.0001	306.71	95.30	-.0000	-.01	164.24	-.0000	-.00
28.39	-.0003	244.23	97.33	-.0000	-.03	166.26	-.0000	-.00
30.41	-.0005	185.88	99.35	-.0000	-.04	168.29	-.0000	-.00
32.44	-.0005	133.90	101.38	-.0000	-.04	170.32	-.0000	-.00
34.47	-.0006	89.60	103.41	-.0000	-.03	172.35	-.0000	-.00
36.50	-.0005	53.50	105.44	.0000	-.03	174.37	-.0000	-.00
38.52	-.0004	25.43	107.46	.0000	-.02	176.40	-.0000	-.00
40.55	-.0004	4.79	109.49	.0000	-.02	178.43	.0000	-.00
42.58	-.0003	-9.36	111.52	.0000	-.01	180.46	.0000	-.00
44.61	-.0002	-18.09	113.55	.0000	-.01	182.49	.0000	-.00
46.64	-.0002	-22.54	115.57	.0000	-.01	184.51	.0000	-.00
48.66	-.0001	-23.75	117.60	.0000	-.00	186.54	.0000	-.00
50.69	-.0001	-22.75	119.63	.0000	-.00	188.57	.0000	-.00
52.72	-.0000	-20.31	121.66	.0000	-.00	190.60	.0000	-.00
54.75	-.0000	-17.12	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-15.60	125.71	.0000	.00	194.65	.0000	-.00
58.80	.0000	-13.35	127.74	.0000	.00	196.68	.0000	-.00
60.83	.0000	-7.36	129.77	.0000	.00	198.71	.0000	-.00
62.86	.0000	-4.93	131.79	.0000	.00	200.73	.0000	-.00
64.88	.0000	-2.93	133.82	.0000	.00	202.76	.0000	-.00
66.91	.0000	-1.32	135.85	.0000	.00			

LOAD CONDITION NO. 2
PILE JOINT NO. 1011

S T R A N - P I L E   A N A L Y S I S

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.0172	-210.65	68.94	.0000	-.31	137.88	.0000	.00
2.03	.0153	-82.96	70.97	.0000	.32	139.91	.0000	.00
4.05	.0134	39.89	72.99	.0000	.67	141.93	-.0000	.00
6.08	.0114	154.27	75.02	.0000	.83	143.96	-.0000	.00
8.11	.0096	257.77	77.05	.0000	.84	145.99	-.0000	.00
10.14	.0078	349.14	79.08	.0000	.76	148.02	-.0000	.00
12.17	.0062	418.18	81.10	.0000	.64	150.04	-.0000	.00
14.19	.0048	459.68	83.13	-.0000	.50	152.07	-.0000	.00
16.22	.0035	472.50	85.16	-.0000	.36	154.10	-.0000	.00
18.25	.0024	461.05	87.19	-.0000	.24	156.13	-.0000	.00
20.28	.0016	430.54	89.22	-.0000	.15	158.15	-.0000	.00
22.30	.0009	386.46	91.24	-.0000	.08	160.18	-.0000	-.00
24.33	.0003	334.10	93.27	-.0000	.02	162.21	-.0000	-.00
26.36	-.0000	278.17	95.30	-.0000	-.01	164.24	-.0000	-.00
28.39	-.0003	222.59	97.33	-.0000	-.03	166.26	-.0000	-.00
30.41	-.0004	170.36	99.35	-.0000	-.03	168.29	-.0000	-.00
32.44	-.0005	123.59	101.38	-.0000	-.03	170.32	-.0000	-.00
34.47	-.0005	83.52	103.41	-.0000	-.03	172.35	-.0000	-.00
36.50	-.0005	50.71	105.44	.0000	-.02	174.37	-.0000	-.00
38.52	-.0004	25.06	107.46	.0000	-.02	176.40	-.0000	-.00
40.55	-.0003	6.06	109.49	.0000	-.02	178.43	.0000	-.00
42.58	-.0003	-7.07	111.52	.0000	-.01	180.46	.0000	-.00
44.61	-.0002	-15.30	113.55	.0000	-.01	182.49	.00[illegible]	-.00
46.64	-.0001	-19.61	115.57	.0000	-.01	184.51	.[illegible]000	-.00
48.66	-.0001	-20.97	117.60	.0000	-.00	186.54	.0000	-.00
50.69	-.0001	-20.26	119.63	.0000	-.00	188.57	.0000	-.00
52.72	-.0000	-18.21	121.66	.0000	-.00	190.60	.0000	-.00
54.75	-.0000	-15.44	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-12.41	125.71	.0000	.00	194.65	.0000	-.00
58.80	.0000	-9.44	127.74	.0000	.00	196.68	.0000	-.00
60.83	.0000	-6.76	129.77	.0000	.00	198.71	.0000	-.00
62.86	.0000	-4.48	131.79	.0000	.00	200.73	.0000	-.00
64.88	.0000	-2.66	133.82	.0000	.00	202.76	.0000	-.00
66.91	.0000	-1.28	135.85	.0000	.00			

LOAD CONDITION NO. 2
PILE JOINT NO. 1012

S T R A N - P I L E   A N A L Y S I S

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.0176	-148.30	68.94	.0000	-.22	137.88	.0000	.00
2.03	.0155	-26.42	70.97	.0000	.39	139.91	.0000	.00
4.06	.0135	90.54	72.99	.0000	.73	141.93	-.0000	.00
6.08	.0115	198.95	75.02	.0000	.86	143.96	-.0000	.00
8.11	.0096	296.43	77.05	.0000	.86	145.99	-.0000	.00
10.14	.0078	381.77	79.08	.0000	.77	148.02	-.0000	.00
12.17	.0061	444.90	81.10	.0000	.64	150.04	-.0000	.00
14.19	.0047	480.77	83.13	-.0000	.50	152.07	-.0000	.00
16.22	.0034	488.42	85.16	-.0000	.36	154.10	-.0000	.00
18.25	.0024	472.39	87.19	-.0000	.24	156.13	-.0000	.00
20.28	.0015	437.95	89.22	-.0000	.14	158.15	-.0000	.00
22.30	.0008	390.62	91.24	-.0000	.07	160.18	-.0000	-.00
24.33	.0003	335.71	93.27	-.0000	.02	162.21	-.0000	-.00
26.36	-.0001	277.88	95.30	-.0000	-.01	164.24	-.0000	-.00
28.39	-.0003	220.97	97.33	-.0000	-.03	166.26	-.0000	-.00
30.41	-.0004	167.91	99.35	-.0000	-.03	168.29	-.0000	-.00
32.44	-.0005	120.72	101.38	-.0000	-.03	170.32	-.0000	-.00
34.47	-.0005	80.55	103.41	-.0000	-.03	172.35	-.0000	-.00
36.50	-.0005	47.86	105.44	.0000	-.03	174.37	-.0000	-.00
38.52	-.0004	22.49	107.46	.0000	-.02	176.40	-.0000	-.00
40.55	-.0003	3.86	109.49	.0000	-.02	178.43	.0000	-.00
42.58	-.0003	-8.87	111.52	.0000	-.01	180.46	.0000	-.00
44.61	-.0002	-16.70	113.55	.0000	-.01	182.49	.0000	-.00
46.64	-.0001	-20.64	115.57	.0000	-.01	184.51	.0000	-.00
48.66	-.0001	-21.59	117.60	.0000	-.00	186.54	.0000	-.00
50.69	-.0001	-20.71	119.63	.0000	-.00	188.57	.0000	-.00
52.72	-.0000	-18.46	121.66	.0000	-.00	190.60	.0000	-.00
54.75	-.0000	-15.53	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-12.39	125.71	.0000	.00	194.65	.0000	-.00
58.80	.0000	-9.36	127.74	.0000	.00	196.68	.0000	-.00
60.83	.0000	-6.64	129.77	.0000	.00	198.71	.0000	-.00
62.86	.0000	-4.35	131.79	.0000	.00	200.73	.0000	-.00
64.88	.0000	-2.53	133.82	.0000	.00	202.76	.0000	-.00
66.91	.0000	-1.17	135.85	.0000	.00			

S T R A N - P I L E   A N A L Y S I S

LOAD CONDITION NO. 3
PILE JOINT NO. 1010

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.0783	-737.61	68.94	.0001	-1.11	137.88	.0000	.01
2.03	.0694	-194.22	70.97	.0000	1.65	139.91	.0000	.01
4.06	.0604	332.44	72.99	.0000	3.18	141.93	-.0000	.00
6.08	.0515	826.46	75.02	.0000	3.81	143.96	-.0000	.00
8.11	.0430	1272.77	77.05	.0000	3.82	145.99	-.0000	.00
10.14	.0350	1664.59	79.08	.0000	3.44	148.02	-.0000	.00
12.17	.0277	1955.61	81.10	.0000	2.87	150.04	-.0000	.00
14.19	.0212	2125.86	83.13	-.0000	2.23	152.07	-.0000	.00
16.22	.0155	2167.85	85.16	-.0000	1.61	154.10	-.0000	.00
18.25	.0107	2102.71	87.19	-.0000	1.08	156.13	-.0000	.00
20.28	.0067	1954.00	89.22	-.0000	.65	158.15	-.0000	.00
22.30	.0036	1746.46	91.24	-.0000	.32	160.18	-.0000	-.00
24.33	.0013	1503.85	93.27	-.0000	.10	162.21	-.0000	-.00
26.36	-.0003	1247.19	95.30	-.0000	-.05	164.24	-.0000	-.00
28.39	-.0013	993.83	97.33	-.0000	-.12	166.26	-.0000	-.00
30.41	-.0020	757.00	99.35	-.0000	-.15	168.29	-.0000	-.00
32.44	-.0022	545.86	101.38	-.0000	-.15	170.32	-.0000	-.00
34.47	-.0022	365.79	103.41	-.0000	-.13	172.35	-.0000	-.00
36.50	-.0021	218.94	105.44	.0000	-.11	174.37	-.0000	-.00
38.52	-.0018	104.70	107.46	.0000	-.09	176.40	-.0000	-.00
40.55	-.0015	20.58	109.49	.0000	-.07	178.43	.0000	-.00
42.58	-.0012	-37.15	111.52	.0000	-.06	180.46	.0000	-.00
44.61	-.0009	-72.86	113.55	.0000	-.04	182.49	.0000	-.00
46.64	-.0007	-91.10	115.57	.0000	-.03	184.51	.0000	-.00
48.66	-.0004	-96.25	117.60	.0000	-.02	186.54	.0000	-.00
50.69	-.0003	-92.25	119.63	.0000	-.01	188.57	.0000	-.00
52.72	-.0001	-82.45	121.66	.0000	-.00	190.60	.0000	-.00
54.75	-.0000	-69.55	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-55.62	125.71	.0000	.00	194.65	.0000	-.00
58.80	.0001	-42.11	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0001	-29.97	129.77	.0000	.01	198.71	.0000	-.00
62.86	.0001	-19.72	131.79	.0000	.01	200.73	.0000	-.00
64.88	.0001	-11.55	133.82	.0000	.01	202.76	.0000	-.00
66.91	.0001	-5.42	135.85	.0000	.01			

STRAN-PILE ANALYSIS

LOAD CONDITION NO. 3
PILE JOINT NO. 1011

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.0703	-879.76	68.94	.0000	-1.53	137.88	.0000	.01
2.03	.0625	-360.85	70.97	.0000	1.25	139.91	.0000	.00
4.06	.0546	141.62	72.99	.0000	2.72	141.93	-.0000	.00
6.08	.0468	611.99	75.02	.0000	3.35	143.96	-.0000	.00
8.11	.0392	1037.91	77.05	.0000	3.40	145.99	-.0000	.00
10.14	.0320	1414.19	79.08	.0000	3.10	148.02	-.0000	.00
12.17	.0255	1699.18	81.10	.0000	2.60	150.04	-.0000	.00
14.19	.0195	1871.37	83.13	-.0000	2.03	152.07	-.0000	.00
16.22	.0148	1926.04	85.16	-.0000	1.48	154.10	-.0000	.00
18.25	.0100	1881.22	87.19	-.0000	1.00	156.13	-.0000	.00
20.28	.0064	1758.13	89.22	-.0000	.61	158.15	-.0000	.00
22.30	.0036	1579.22	91.24	-.0000	.31	160.18	-.0000	-.00
24.33	.0014	1366.18	93.27	-.0000	.10	162.21	-.0000	-.00
26.36	-.0001	1138.28	95.30	-.0000	-.03	164.24	-.0000	-.00
28.39	-.0011	911.53	97.33	-.0000	-.10	166.26	-.0000	-.00
30.41	-.0017	698.27	99.35	-.0000	-.13	168.29	-.0000	-.00
32.44	-.0019	507.12	101.38	-.0000	-.13	170.32	-.0000	-.00
34.47	-.0020	343.29	103.41	-.0000	-.12	172.35	-.0000	-.00
36.50	-.0019	208.99	105.44	.0000	-.10	174.37	-.0000	-.00
38.52	-.0016	103.93	107.46	.0000	-.08	176.40	-.0000	-.00
40.55	-.0014	26.04	109.49	.0000	-.07	178.43	.0000	-.00
42.58	-.0011	-27.90	111.52	.0000	-.05	180.46	.0000	-.00
44.61	-.0008	-61.75	113.55	.0000	-.04	182.49	.0000	-.00
46.64	-.0006	-79.59	115.57	.0000	-.03	184.51	.0000	-.00
48.66	-.0004	-85.34	117.60	.0000	-.02	186.54	.0000	-.00
50.69	-.0003	-82.57	119.63	.0000	-.01	188.57	.0000	-.00
52.72	-.0001	-74.33	121.66	.0000	-.00	190.60	.0000	-.00
54.75	-.0000	-63.08	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-50.73	125.71	.0000	.00	194.65	.0000	-.00
58.80	.0000	-38.65	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0001	-27.71	129.77	.0000	.01	198.71	.0000	-.00
62.86	.0001	-18.41	131.79	.0000	.01	200.73	.0000	-.00
64.88	.0001	-10.96	133.82	.0000	.01	202.76	.0000	-.00
66.91	.0001	-5.32	135.85	.0000	.01			

S T R A N - P I L E   A N A L Y S I S

LOAD CONDITION NO. 3
PILE JOINT NO. 1012

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DATE 10/05/76

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.0717	-653.77	68.94	.0000	-.95	137.88	.0000	.01
2.03	.0635	-155.24	70.97	.0000	1.56	139.91	.0000	.01
4.06	.0552	326.85	72.99	.0000	2.95	141.93	-.0000	.00
6.08	.0471	776.75	75.02	.0000	3.51	143.96	-.0000	.00
8.11	.0393	1181.87	77.05	.0000	3.51	145.99	-.0000	.00
10.14	.0320	1537.16	79.08	.0000	3.16	148.02	-.0000	.00
12.17	.0253	1801.26	81.10	.0000	2.63	150.04	-.0000	.00
14.19	.0193	1953.26	83.13	-.0000	2.04	152.07	-.0000	.00
16.22	.0141	1989.12	85.16	-.0000	1.47	154.10	-.0000	.00
18.25	.0097	1927.35	87.19	-.0000	.98	156.13	-.0000	.00
20.28	.0061	1789.51	89.22	-.0000	.59	158.15	-.0000	.00
22.30	.0033	1598.21	91.24	-.0000	.29	160.18	-.0000	-.00
24.33	.0012	1375.18	93.27	-.0000	.09	162.21	-.0000	-.00
26.36	-.0003	1139.62	95.30	-.0000	-.04	164.24	-.0000	-.00
28.39	-.0013	907.36	97.33	-.0000	-.11	166.26	-.0000	-.00
30.41	-.0018	690.47	99.35	-.0000	-.14	168.29	-.0000	-.00
32.44	-.0020	497.26	101.38	-.0000	-.14	170.32	-.0000	-.00
34.47	-.0020	332.61	103.41	-.0000	-.12	172.35	-.0000	-.00
36.50	-.0019	198.45	105.44	.0000	-.10	174.37	-.0000	-.00
38.52	-.0017	94.16	107.46	.0000	-.08	176.40	-.0000	-.00
40.55	-.0014	17.50	109.49	.0000	-.07	178.43	.0000	-.00
42.55	-.0011	-35.04	111.52	.0000	-.05	180.46	.0000	-.00
44.61	-.0008	-67.45	113.55	.0000	-.04	182.49	.0000	-.00
46.64	-.0006	-83.92	115.57	.0000	-.02	184.51	.0000	-.00
48.66	-.0004	-88.44	117.60	.0000	-.02	186.54	.0000	-.00
50.69	-.0002	-84.63	119.63	.0000	-.01	188.57	.0000	-.00
52.72	-.0001	-75.54	121.66	.0000	-.00	190.60	.0000	-.00
54.75	-.0000	-63.65	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-50.84	125.71	.0000	.00	194.65	.0000	-.00
58.80	.0001	-38.45	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0001	-27.33	129.77	.0000	.01	198.71	.0000	-.00
62.86	.0001	-17.95	131.79	.0000	.01	200.73	.0000	-.00
64.88	.0001	-10.48	133.82	.0000	.01	202.76	.0000	-.00
66.91	.0001	-4.88	135.85	.0000	.01			

LOAD CONDITION NO. 4
PILE JOINT NO. 1010

S T R A N - P I L E   A N A L Y S I S

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.0518	-567.16	68.94	.0000	-.84	137.88	.0000	.00
2.03	.0460	-191.36	70.97	.0000	1.02	139.91	.0000	.00
4.06	.0401	169.84	72.99	.0000	2.07	141.93	-.0000	.00
6.08	.0343	505.67	75.02	.0000	2.50	143.96	-.0000	.00
8.11	.0286	808.96	77.05	.0000	2.52	145.99	-.0000	.00
10.14	.0234	1075.96	79.08	.0000	2.28	148.02	-.0000	.00
12.17	.0185	1276.39	81.10	.0000	1.91	150.04	-.0000	.00
14.19	.0142	1394.77	83.13	-.0000	1.48	152.07	-.0000	.00
16.22	.0104	1427.90	85.16	-.0000	1.08	154.10	-.0000	.00
18.25	.0072	1369.12	87.19	-.0000	.72	156.13	-.0000	.00
20.28	.0046	1294.01	89.22	-.0000	.44	158.15	-.0000	.00
22.30	.0025	1159.03	91.24	-.0000	.22	160.18	-.0000	-.00
24.33	.0010	1000.01	93.27	-.0000	.07	162.21	-.0000	-.00
26.36	-.0001	850.98	95.30	-.0000	-.03	164.24	-.0000	-.00
28.39	-.0009	663.56	97.33	-.0000	-.08	166.26	-.0000	-.00
30.41	-.0013	506.66	99.35	-.0000	-.10	168.29	-.0000	-.00
32.44	-.0015	366.45	101.38	-.0000	-.10	170.32	-.0000	-.00
34.47	-.0015	246.63	103.41	-.0000	-.09	172.35	-.0000	-.00
36.50	-.0014	148.69	105.44	.0000	-.07	174.37	-.0000	-.00
38.52	-.0012	72.32	107.46	.0000	-.06	176.40	-.0000	-.00
40.55	-.0010	15.93	109.49	.0000	-.05	178.43	.0000	-.00
42.58	-.0008	-22.93	111.52	.0000	-.04	180.46	.0000	-.00
44.61	-.0006	-47.11	113.55	.0000	-.03	182.49	.0000	-.00
46.64	-.0004	-59.63	115.57	.0000	-.02	184.51	.0000	-.00
48.66	-.0003	-63.38	117.60	.0000	-.01	186.54	.0000	-.00
50.69	-.0002	-60.99	119.63	.0000	-.01	188.57	.0000	-.00
52.72	-.0001	-54.67	121.66	.0000	-.00	190.60	.0000	-.00
54.75	-.0000	-46.25	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-37.06	125.71	.0000	.00	194.65	.0000	-.00
58.80	.0000	-28.15	127.74	.0000	.00	196.68	.0000	-.00
60.83	.0000	-20.08	129.77	.0000	.00	198.71	.0000	-.00
62.86	.0001	-13.27	131.79	.0000	.01	200.73	.0000	-.00
64.88	.0000	-7.82	133.82	.0000	.01	202.76	.0000	-.00
66.91	.0000	-3.72	135.85	.0000	.00			

LOAD CONDITION NO. 4
PILE JOINT NO. 1011

S T R A N - P I L E   A N A L Y S I S

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.0479	-703.15	68.94	.0000	-1.04	137.88	.0000	.00
2.03	.0428	-332.85	70.97	.0000	.77	139.91	.0000	.00
4.06	.0375	23.92	72.99	.0000	1.81	141.93	-.0000	.00
6.08	.0322	356.95	75.02	.0000	2.26	143.96	-.0000	.00
8.11	.0270	659.41	77.05	.0000	2.32	145.99	-.0000	.00
10.14	.0221	927.62	79.08	.0000	2.12	148.02	-.0000	.00
12.17	.0176	1132.70	81.10	.0000	1.79	150.04	-.0000	.00
14.19	.0136	1259.61	83.13	-.0000	1.40	152.07	-.0000	.00
16.22	.0100	1304.79	85.16	-.0000	1.03	154.10	-.0000	.00
18.25	.0070	1280.53	87.19	-.0000	.70	156.13	-.0000	.00
20.28	.0045	1201.35	89.22	-.0000	.43	158.15	-.0000	.00
22.30	.0025	1082.68	91.24	-.0000	.22	160.18	-.0000	-.00
24.33	.0011	939.47	93.27	-.0000	.08	162.21	-.0000	-.00
26.36	.0000	785.07	95.30	-.0000	-.02	164.24	-.0000	-.00
28.39	-.0007	630.63	97.33	-.0000	-.07	166.26	-.0000	-.00
30.41	-.0011	484.77	99.35	-.0000	-.09	168.29	-.0000	-.00
32.44	-.0013	353.58	101.38	-.0000	-.09	170.32	-.0000	-.00
34.47	-.0013	240.76	103.41	-.0000	-.08	172.35	-.0000	-.00
36.50	-.0013	147.99	105.44	.0000	-.07	174.37	-.0000	-.00
38.52	-.0011	75.16	107.46	.0000	-.06	176.40	-.0000	-.00
40.55	-.0010	20.95	109.49	.0000	-.05	178.43	.0000	-.00
42.58	-.0008	-16.80	111.52	.0000	-.03	180.46	.0000	-.00
44.61	-.0006	-40.69	113.55	.0000	-.03	182.49	.0000	-.00
46.64	-.0004	-53.49	115.57	.0000	-.02	184.51	.0000	-.00
48.66	-.0003	-57.89	117.60	.0000	-.01	186.54	.0000	-.00
50.69	-.0002	-56.34	119.63	.0000	-.01	188.57	.0000	-.00
52.72	-.0001	-50.93	121.66	.0000	-.00	190.60	.0000	-.00
54.75	-.0000	-43.39	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-35.01	125.71	.0000	.00	194.65	.0000	-.00
58.80	.0000	-26.77	127.74	.0000	.00	196.68	.0000	-.00
60.83	.0000	-19.27	129.77	.0000	.00	198.71	.0000	-.00
62.86	.0000	-12.87	131.79	.0000	.00	200.73	.0000	-.00
64.88	.0000	-7.72	133.82	.0000	.00	202.76	.0000	-.00
66.91	.0000	-3.82	135.85	.0000	.00			

LOAD CONDITION NO. 4
PILE JOINT NO. 1012

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.0490	-581.29	68.94	.0000	-.87	137.88	.0000	.00
2.03	.0435	-220.21	70.97	.0000	.92	139.91	.0000	.00
4.06	.0380	127.08	72.99	.0000	1.92	141.93	-.0000	.00
6.08	.0325	450.30	75.02	.0000	2.35	143.96	-.0000	.00
8.11	.0272	742.62	77.05	.0000	2.38	145.99	-.0000	.00
10.14	.0222	1000.46	79.08	.0000	2.16	148.02	-.0000	.00
12.17	.0176	1194.97	81.10	.0000	1.81	150.04	-.0000	.00
14.19	.0135	1311.32	83.13	-.0000	1.41	152.07	-.0000	.00
16.22	.0099	1346.33	85.16	-.0000	1.03	154.10	-.0000	.00
18.25	.0069	1312.60	87.19	-.0000	.69	156.13	-.0000	.00
20.28	.0044	1224.89	89.22	-.0000	.42	158.15	-.0000	.00
22.30	.0024	1098.82	91.24	-.0000	.21	160.18	-.0000	-.00
24.33	.0009	949.43	93.27	-.0000	.07	162.21	-.0000	-.00
26.36	-.0001	790.09	95.30	-.0000	-.02	164.24	-.0000	-.00
28.39	-.0008	631.89	97.33	-.0000	-.07	166.26	-.0000	-.00
30.41	-.0012	483.34	99.35	-.0000	-.09	168.29	-.0000	-.00
32.44	-.0014	350.38	101.38	-.0000	-.09	170.32	-.0000	-.00
34.47	-.0014	236.56	103.41	-.0000	-.08	172.35	-.0000	-.00
36.50	-.0013	143.39	105.44	.0000	-.07	174.37	-.0000	-.00
38.52	-.0011	70.61	107.46	.0000	-.06	176.40	-.0000	-.00
40.55	-.0010	16.74	109.49	.0000	-.05	178.43	.0000	-.00
42.58	-.0008	-20.47	111.52	.0000	-.03	180.46	.0000	-.00
44.61	-.0006	-43.74	113.55	.0000	-.03	182.49	.0000	-.00
46.64	-.0004	-55.90	115.57	.0000	-.02	184.51	.0000	-.00
48.66	-.0003	-59.70	117.60	.0000	-.01	186.54	.0000	-.00
50.69	-.0002	-57.62	119.63	.0000	-.01	188.57	.0000	-.00
52.72	-.0001	-51.77	121.66	.0000	-.00	190.60	.0000	-.00
54.75	-.0000	-43.86	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-35.22	125.71	.0000	.00	194.65	.0000	-.00
58.80	.0000	-26.79	127.74	.0000	.00	196.68	.0000	-.00
60.83	.0000	-19.17	129.77	.0000	.00	198.71	.0000	-.00
62.86	.0000	-12.70	131.79	.0000	.00	200.73	.0000	-.00
64.88	.0000	-7.55	133.82	.0000	.00	202.76	.0000	-.00
66.91	.0000	-3.62	135.85	.0000	.00			

STRAN-PILE ANALYSIS

LOAD CONDITION NO. 5
PILE JOINT NO. 1010

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.1932	-2124.12	68.94	.0001	-7.23	137.88	.0000	.01
2.03	.1729	-979.68	70.97	.0001	.86	139.91	.0000	.01
4.06	.1523	144.40	72.99	.0001	5.74	141.93	.0000	.01
6.08	.1317	1224.77	75.02	.0001	8.17	143.96	-.0000	.01
8.11	.1116	2255.03	77.05	.0000	8.84	145.99	-.0000	.01
10.14	.0924	3206.48	79.08	.0000	8.37	148.02	-.0000	.01
12.17	.0746	4001.35	81.10	.0000	7.24	150.04	-.0000	.00
14.19	.0583	4578.76	83.13	.0000	5.81	152.07	-.0000	.00
16.22	.0439	4895.78	85.16	-.0000	4.36	154.10	-.0000	.00
18.25	.0315	4934.70	87.19	-.0000	3.04	156.13	-.0000	.00
20.28	.0211	4727.48	89.22	-.0000	1.93	158.15	-.0000	.00
22.30	.0127	4336.61	91.24	-.0000	1.06	160.18	-.0000	-.00
24.33	.0062	3823.90	93.27	-.0000	.44	162.21	-.0000	-.00
26.36	.0016	3245.51	95.30	-.0000	.03	164.24	-.0000	-.00
28.39	-.0016	2649.34	97.33	-.0000	-.21	166.26	-.0000	-.00
30.41	-.0037	2073.42	99.35	-.0000	-.32	168.29	-.0000	-.00
32.44	-.0047	1545.52	101.38	-.0000	-.35	170.32	-.0000	-.00
34.47	-.0051	1083.73	103.41	-.0000	-.32	172.35	-.0000	-.00
36.50	-.0049	697.51	105.44	-.0000	-.27	174.37	-.0000	-.00
38.52	-.0045	368.83	107.46	.0000	-.23	176.40	-.0000	-.00
40.55	-.0039	154.20	109.49	.0000	-.18	178.43	.0000	-.00
42.58	-.0032	-13.87	111.52	.0000	-.14	180.46	.0000	-.00
44.61	-.0025	-124.33	113.55	.0000	-.11	182.49	.0000	-.00
46.64	-.0018	-168.36	115.57	.0000	-.08	184.51	.0000	-.00
48.66	-.0013	-216.33	117.60	.0000	-.05	186.54	.0000	-.00
50.69	-.0008	-218.06	119.63	.0000	-.03	188.57	.0000	-.00
52.72	-.0005	-202.20	121.66	.0000	-.01	190.60	.0000	-.00
54.75	-.0002	-175.86	123.68	.0000	-.00	192.62	.0000	-.00
56.77	-.0000	-144.87	125.71	.0000	.01	194.65	.0000	-.00
58.80	.0001	-112.77	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0001	-83.00	129.77	.0000	.02	198.71	.0000	-.00
62.86	.0002	-57.05	131.79	.0000	.02	200.73	.0000	-.00
64.88	.0002	-35.75	133.82	.0000	.02	202.76	.0000	0.00
66.91	.0002	-19.24	135.85	.0000	.02			

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.1932	-2124.12	68.94	.0001	-7.23	137.88	.0000	.01
2.03	.1729	-979.68	70.97	.0001	.86	139.91	.0000	.01
4.06	.1523	144.40	72.99	.0001	5.74	141.93	.0000	.01
6.08	.1317	1228.77	75.02	.0001	8.17	143.96	-.0000	.01
8.11	.1116	2255.03	77.05	.0000	8.84	145.99	-.0000	.01
10.14	.0924	3206.48	79.08	.0000	8.37	148.02	-.0000	.01
12.17	.0746	4001.35	81.10	.0000	7.24	150.04	-.0000	.00
14.19	.0563	4578.76	83.13	.0000	5.81	152.07	-.0000	.00
16.22	.0439	4895.78	85.16	-.0000	4.56	154.10	-.0000	.00
18.25	.0315	4934.70	87.19	-.0000	3.04	156.13	-.0000	.00
20.28	.0211	4727.48	89.22	-.0000	1.93	158.15	-.0000	.00
22.30	.0127	4336.61	91.24	-.0000	1.06	160.18	-.0000	-.00
24.33	.0062	3823.90	93.27	-.0000	.44	162.21	-.0000	-.00
26.36	.0016	3245.51	95.30	-.0000	.03	164.24	-.0000	-.00
28.39	-.0016	2649.34	97.33	-.0000	-.21	166.26	-.0000	-.00
30.41	-.0037	2073.42	99.35	-.0000	-.32	168.29	-.0000	-.00
32.44	-.0047	1545.52	101.38	-.0000	-.35	170.32	-.0000	-.00
34.47	-.0051	1083.73	103.41	-.0000	-.32	172.35	-.0000	-.00
36.50	-.0049	697.51	105.44	-.0000	-.27	174.37	-.0000	-.00
38.52	-.0045	388.83	107.46	.0000	-.25	176.40	-.0000	-.00
40.55	-.0039	154.20	109.49	.0000	-.18	178.43	.0000	-.00
42.58	-.0032	-13.67	111.52	.0000	-.14	180.46	.0000	-.00
44.61	-.0025	-124.33	113.55	.0000	-.11	182.49	.0000	-.00
46.64	-.0018	-188.36	115.57	.0000	-.08	184.51	.0000	-.00
48.66	-.0013	-216.33	117.60	.0000	-.05	186.54	.0000	-.00
50.69	-.0008	-218.06	119.63	.0000	-.03	188.57	.0000	-.00
52.72	-.0005	-202.20	121.66	.0000	-.01	190.60	.0000	-.00
54.75	-.0002	-175.86	123.68	.0000	-.00	192.62	.0000	-.00
56.77	-.0000	-144.67	125.71	.0000	.01	194.65	.0000	-.00
58.80	.0001	-112.77	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0001	-83.00	129.77	.0000	.02	198.71	.0000	-.00
62.86	.0002	-57.05	131.79	.0000	.02	200.73	.0000	-.00
64.88	.0002	-35.75	133.82	.0000	.02	202.76	.0000	0.00
66.91	.0002	-19.24	135.85	.0000	.02			

S T R A N - P I L E   A N A L Y S I S

LOAD CONDITION NO. 5
PILE JOINT NO. 1011

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.1732	-2362.64	68.94	.0001	-6.81	137.88	.0000	.01
2.03	.1555	-1260.13	70.97	.0001	.56	139.91	.0000	.01
4.06	.1372	-177.69	72.99	.0001	5.02	141.93	.0000	.01
6.08	.1189	865.74	75.02	.0001	7.26	143.96	-.0000	.01
8.11	.1009	1852.13	77.05	.0000	7.91	145.99	-.0000	.01
10.14	.0837	2765.91	79.08	.0000	7.52	148.02	-.0000	.01
12.17	.0676	3530.20	81.10	.0000	6.52	150.04	-.0000	.00
14.19	.0529	4086.92	83.13	.0000	5.25	152.07	-.0000	.00
16.22	.0399	4394.24	85.16	-.0000	3.95	154.10	-.0000	.00
18.25	.0287	4438.57	87.19	-.0000	2.75	156.13	-.0000	.00
20.28	.0192	4259.12	89.22	-.0000	1.76	158.15	-.0000	.00
22.30	.0116	3912.34	91.24	-.0000	.98	160.18	-.0000	-.00
24.33	.0058	3454.11	93.27	-.0000	.41	162.21	-.0000	-.00
26.36	.0015	2935.25	95.30	-.0000	.04	164.24	-.0000	-.00
28.39	-.0014	2399.16	97.33	-.0000	-.18	166.26	-.0000	-.00
30.41	-.0032	1880.35	99.35	-.0000	-.29	168.29	-.0000	-.00
32.44	-.0042	1404.11	101.38	-.0000	-.31	170.32	-.0000	-.00
34.47	-.0045	986.94	103.41	-.0000	-.29	172.35	-.0000	-.00
36.50	-.0044	637.56	105.44	-.0000	-.25	174.37	-.0000	-.00
38.52	-.0040	357.92	107.46	.0000	-.20	176.40	-.0000	-.00
40.55	-.0035	145.00	109.49	.0000	-.16	178.43	.0000	-.00
42.58	-.0029	-7.67	111.52	.0000	-.13	180.46	.0000	-.00
44.61	-.0022	-108.65	113.55	.0000	-.10	182.49	.0000	-.00
46.64	-.0017	-167.42	115.57	.0000	-.07	184.51	.0000	-.00
48.66	-.0012	-193.50	117.60	.0000	-.05	186.54	.0000	-.00
50.69	-.0008	-195.76	119.63	.0000	-.03	188.57	.0000	-.00
52.72	-.0004	-181.96	121.66	.0000	-.01	190.60	.0000	-.00
54.75	-.0002	-158.57	123.68	.0000	-.00	192.62	.0000	-.00
56.77	-.0000	-130.69	125.71	.0000	.01	194.65	.0000	-.00
58.80	.0001	-102.07	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0001	-75.28	129.77	.0000	.01	198.71	.0000	-.00
62.86	.0002	-51.89	131.79	.0000	.02	200.73	.0000	-.00
64.88	.0002	-32.64	133.82	.0000	.02	202.76	.0000	-.00
66.91	.0001	-17.70	135.85	.0000	.01			

S T R A N - P I L E   A N A L Y S I S

LOAD CONDITION NO. 5 — PAGE 15
PILE JOINT NO. 1012 — DATE 10/05/76

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.1751	-1850.66	68.94	.0001	-5.71	137.88	.0000	.01
2.03	.1565	-795.95	70.97	.0001	1.41	13[illegible].91	.0000	.01
4.06	.1375	238.89	72.99	.0001	5.65	141.93	-.0000	.01
6.08	.1187	1234.68	75.02	.0000	7.69	143.96	-.0000	.01
8.11	.1003	21[illegible]3.24	77.05	.0000	8.17	145.99	-.0000	.01
10.14	.0828	3038.85	79.08	.0000	7.65	148.02	-.0000	.01
12.17	.0666	3755.00	81.10	.0000	6.56	150.04	-.0000	.00
14.19	.0518	4264.19	83.13	.0000	5.24	152.07	-.0000	.00
16.22	.0388	4525.17	85.16	-.0000	3.90	154.10	-.0000	.00
18.25	.0277	4526.16	87.19	-.0000	2.69	156.13	-.0000	.00
20.28	.0183	4310.36	89.22	-.0000	1.69	158.15	-.0000	.00
22.30	.0108	3934.30	91.24	-.0000	.92	160.18	-.0000	-.00
24.33	.0051	3453.58	93.27	-.0000	.36	162.21	-.0000	-.00
26.36	.0010	2918.50	95.30	-.0000	-.00	164.24	-.0000	-.00
28.39	-.0018	2371.74	97.33	-.0000	-.21	166.26	-.0000	-.00
30.41	-.0035	1846.93	99.35	-.0000	-.31	168.29	-.0000	-.00
32.44	-.0044	1366.44	101.38	-.0000	-.32	170.32	-.0000	-.00
34.47	-.0047	951.88	103.41	-.0000	-.29	172.35	-.0000	-.00
36.50	-.0045	605.13	105.44	-.0000	-.25	174.37	-.0000	-.00
38.52	-.0041	329.38	107.46	.0000	-.21	176.40	-.0000	-.00
40.55	-.0035	120.99	109.49	.0000	-.17	178.43	.0000	-.00
42.58	-.0028	-26.99	111.52	.0000	-.13	180.46	.0000	-.00
44.61	-.0022	-123.48	113.55	.0000	-.10	182.49	.0000	-.00
46.64	-.0016	-178.20	115.57	.0000	-.07	184.51	.0000	-.00
48.66	-.0011	-200.81	117.60	.0000	-.04	186.54	.0000	-.00
50.69	-.0007	-200.24	119.63	.0000	-.03	188.57	.0000	-.00
52.72	-.0004	-184.24	121.66	.0000	-.01	190.60	.0000	-.00
54.75	-.0002	-159.24	123.68	.0000	-.00	192.62	.0000	-.00
56.77	-.0000	-130.25	125.71	.0000	.01	194.65	.0000	-.00
58.80	.0001	-100.95	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0001	-73.82	129.77	.0000	.01	198.71	.0000	-.00
62.86	.0002	-50.33	131.79	.0000	.02	200.73	.0000	-.00
64.88	.0002	-31.15	133.82	.0000	.02	202.76	.0000	0.00
66.91	.0001	-16.38	135.85	.0000	.02			

STRAN-PILE ANALYSIS

LOAD CONDITION NO. 6
PILE JOINT NO. 1010

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.0799	-927.39	68.94	.0001	-1.41	137.88	.0000	.01
2.03	.0710	-352.53	70.97	.0000	1.50	139.91	.0000	.01
4.06	.0620	205.51	72.99	.0000	3.14	141.93	-.0000	.00
6.08	.0530	730.77	75.02	.0000	3.84	143.96	-.0000	.00
8.11	.0444	1208.10	77.05	.0000	3.88	145.99	-.0000	.00
10.14	.0362	1629.17	79.08	.0000	3.52	148.02	-.0000	.00
12.17	.0288	1946.92	81.10	.0000	2.95	150.04	-.0000	.00
14.19	.0220	2137.15	83.13	-.0000	2.30	152.07	-.0000	.00
16.22	.0162	2194.66	85.16	-.0000	1.68	154.10	-.0000	.00
18.25	.0113	2139.99	87.19	-.0000	1.13	156.13	-.0000	.00
20.28	.0072	1997.24	89.22	-.0000	.68	158.15	-.0000	.00
22.30	.0040	1791.84	91.24	-.0000	.35	160.18	-.0000	-.00
24.33	.0015	1548.36	93.27	-.0000	.11	162.21	-.0000	-.00
26.36	-.0002	1288.60	95.30	-.0000	-.04	164.24	-.0000	-.00
28.39	-.0013	1030.64	97.33	-.0000	-.12	166.26	-.0000	-.00
30.41	-.0019	788.39	99.35	-.0000	-.15	168.29	-.0000	-.00
32.44	-.0022	571.54	101.38	-.0000	-.15	170.32	-.0000	-.00
34.47	-.0023	385.91	103.41	-.0000	-.14	172.35	-.0000	-.00
36.50	-.0021	233.93	105.44	.0000	-.12	174.37	-.0000	-.00
38.52	-.0019	115.20	107.46	.0000	-.09	176.40	-.0000	-.00
40.55	-.0016	27.34	109.49	.0000	-.07	178.43	.0000	-.00
42.58	-.0013	-33.37	111.52	.0000	-.06	180.46	.0000	-.00
44.61	-.0010	-71.34	113.55	.0000	-.04	182.49	.0000	-.00
46.64	-.0007	-91.19	115.57	.0000	-.03	184.51	.0000	-.00
48.66	-.0005	-97.39	117.60	.0000	-.02	186.54	.0000	-.00
50.69	-.0003	-93.99	119.63	.0000	-.01	188.57	.0000	-.00
52.72	-.0002	-84.45	121.66	.0000	-.00	190.60	.0000	-.00
54.75	-.0001	-71.55	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-57.46	125.71	.0000	.00	194.65	.0000	-.00
58.80	.0001	-43.70	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0001	-31.27	129.77	.0000	.01	198.71	.0000	-.00
62.86	.0001	-20.72	131.79	.0000	.01	200.73	.0000	-.00
64.88	.0001	-12.28	133.82	.0000	.01	202.76	.0000	-.00
66.91	.0001	-5.91	135.85	.0000	.01			

S T R A N - P I L E   A N A L Y S I S

LOAD CONDITION NO. 6
PILE JOINT NO. 1011

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.0742	-1155.97	68.94	.0001	-1.73	137.88	.0000	.01
2.03	.0663	-581.51	70.97	.0000	1.11	139.91	.0000	.01
4.06	.0581	-23.62	72.99	.0000	2.75	141.93	-.0000	.00
6.08	.0500	501.84	75.02	.0000	3.48	143.96	-.0000	.00
8.11	.0420	979.78	77.05	.0000	3.56	145.99	-.0000	.00
10.14	.0345	1404.41	79.08	.0000	3.29	148.02	-.0000	.00
12.17	.0275	1730.69	81.10	.0000	2.78	150.04	-.0000	.00
14.19	.0212	1934.95	83.13	-.0000	2.19	152.07	-.0000	.00
16.22	.0157	2011.47	85.16	-.0000	1.61	154.10	-.0000	.00
18.25	.0110	1979.22	87.19	-.0000	1.09	156.13	-.0000	.00
20.28	.0071	1860.72	89.22	-.0000	.67	158.15	-.0000	.00
22.30	.0040	1679.92	91.24	-.0000	.35	160.18	-.0000	-.00
24.33	.0017	1460.11	93.27	-.0000	.12	162.21	-.0000	-.00
26.36	.0001	1222.12	95.30	-.0000	-.02	164.24	-.0000	-.00
28.39	-.0010	983.36	97.33	-.0000	-.10	166.26	-.0000	-.00
30.41	-.0017	757.36	99.35	-.0000	-.14	168.29	-.0000	-.00
32.44	-.0020	553.68	101.38	-.0000	-.14	170.32	-.0000	-.00
34.47	-.0021	378.24	103.41	-.0000	-.13	172.35	-.0000	-.00
36.50	-.0020	233.70	105.44	.0000	-.11	174.37	-.0000	-.00
38.52	-.0017	120.03	107.46	.0000	-.09	176.40	-.0000	-.00
40.55	-.0015	35.22	109.49	.0000	-.07	178.43	.0000	-.00
42.58	-.0012	-24.00	111.52	.0000	-.05	180.46	.0000	-.00
44.61	-.0009	-61.66	113.55	.0000	-.04	182.49	.0000	-.00
46.64	-.0007	-82.02	115.57	.0000	-.03	184.51	.0000	-.00
48.66	-.0005	-89.25	117.60	.0000	-.02	186.54	.0000	-.00
50.69	-.0003	-87.15	119.63	.0000	-.01	188.57	.0000	-.00
52.72	-.0002	-78.98	121.66	.0000	-.00	190.60	.0000	-.00
54.75	-.0001	-67.41	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-54.51	125.71	.0000	.00	194.65	.0000	-.00
58.80	.0000	-41.75	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0001	-30.13	129.77	.0000	.01	198.71	.0000	-.00
62.86	.0001	-20.19	131.79	.0000	.01	200.73	.0000	-.00
64.88	.0001	-12.17	133.82	.0000	.01	202.76	.0000	-.00
66.91	.0001	-6.08	135.85	.0000	.01			

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.0758	-974.74	68.94	.0001	-1.48	137.88	.0000	.01
2.03	.0675	-414.29	70.97	.0000	1.32	139.91	.0000	.01
4.06	.0590	129.50	72.99	.0000	2.92	141.93	-.0000	.00
6.08	.0506	640.78	75.02	.0000	3.61	143.96	-.0000	.00
8.11	.0424	1104.03	77.05	.0000	3.67	145.99	-.0000	.00
10.14	.0347	1513.61	79.08	.0000	3.34	148.02	-.0000	.00
12.17	.0275	1824.45	81.10	.0000	2.81	150.04	-.0000	.00
14.19	.0212	2015.21	83.13	-.0000	2.20	152.07	-.0000	.00
16.22	.0156	2074.71	85.16	-.0000	1.61	154.10	-.0000	.00
18.25	.0109	2028.39	87.19	-.0000	1.08	156.13	-.0000	.00
20.28	.0070	1897.15	89.22	-.0000	.66	158.15	-.0000	.00
22.30	.0039	1705.24	91.24	-.0000	.34	160.18	-.0000	-.00
24.33	.0016	1476.12	93.27	-.0000	.11	162.21	-.0000	-.00
26.36	-.0001	1230.62	95.30	-.0000	-.03	164.24	-.0000	-.00
28.39	-.0012	986.11	97.33	-.0000	-.11	166.26	-.0000	-.00
30.41	-.0018	755.95	99.35	-.0000	-.14	168.29	-.0000	-.00
32.44	-.0021	549.51	101.38	-.0000	-.15	170.32	-.0000	-.00
34.47	-.0021	372.44	103.41	-.0000	-.13	172.35	-.0000	-.00
36.50	-.0020	227.20	105.44	.0000	-.11	174.37	-.0000	-.00
38.52	-.0018	113.50	107.46	.0000	-.09	176.40	-.0000	-.00
40.55	-.0015	29.13	109.49	.0000	-.07	178.43	.0000	-.00
42.58	-.0012	-29.36	111.52	.0000	-.05	180.46	.0000	-.00
44.61	-.0009	-66.14	113.55	.0000	-.04	182.49	.0000	-.00
46.64	-.0007	-85.59	115.57	.0000	-.03	184.51	.0000	-.00
48.66	-.0004	-91.95	117.60	.0000	-.02	186.54	.0000	-.00
50.69	-.0003	-89.07	119.63	.0000	-.01	188.57	.0000	-.00
52.72	-.0001	-80.24	121.66	.0000	-.00	190.60	.0000	-.00
54.75	-.0001	-68.15	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-54.85	125.71	.0000	.00	194.65	.0000	-.00
58.80	.0000	-41.82	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0001	-30.01	129.77	.0000	.01	198.71	.0000	-.00
62.86	.0001	-19.96	131.79	.0000	.01	200.73	.0000	-.00
64.88	.0001	-11.90	133.82	.0000	.01	202.76	.0000	-.00
66.91	.0001	-5.80	135.85	.0000	.01			

STRAN-PILE ANALYSIS

LOAD CONDITION NO. 7
PILE JOINT NO. 1010

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.5690	-6644.91	68.94	.0004	-47.03	137.88	.0000	.04
2.03	.5158	-3957.86	70.97	.0003	-16.78	139.91	.0000	.03
4.06	.4610	-1296.74	72.99	.0003	3.41	141.93	.0000	.03
6.08	.4057	1313.70	75.02	.0002	15.42	143.96	.0000	.03
8.11	.3510	3850.19	77.05	.0001	21.21	145.99	-.0000	.02
10.14	.2978	6291.35	79.08	.0001	22.61	148.02	-.0000	.02
12.17	.2471	8481.52	81.10	.0000	21.17	150.04	-.0000	.01
14.19	.1999	10294.72	83.13	.0000	18.13	152.07	-.0000	.01
16.22	.1568	11641.61	85.16	.0000	14.43	154.10	-.0000	.01
18.25	.1165	12447.04	87.19	-.0000	10.71	156.13	-.0000	.00
20.28	.0852	12663.28	89.22	-.0000	7.36	158.15	-.0000	.00
22.30	.0573	12278.74	91.24	-.0000	4.59	160.18	-.0000	.00
24.33	.0351	11359.68	93.27	-.0000	2.45	162.21	-.0000	.00
26.36	.0179	10072.20	95.30	-.0000	.93	164.24	-.0000	-.00
28.39	.0054	8580.01	97.33	-.0000	-.05	166.26	-.0000	-.00
30.41	-.0032	7021.44	99.35	-.0000	-.60	168.29	-.0000	-.00
32.44	-.0087	5505.27	101.38	-.0000	-.83	170.32	-.0000	-.00
34.47	-.0116	4110.66	103.41	-.0000	-.83	172.35	-.0000	-.00
36.50	-.0127	2888.99	105.44	-.0000	-.74	174.37	-.0000	-.00
38.52	-.0124	1866.41	107.46	-.0000	-.64	176.40	-.0000	-.00
40.55	-.0113	1049.07	109.49	.0000	-.54	178.43	-.0000	-.00
42.58	-.0098	428.06	111.52	.0000	-.44	180.46	.0000	-.00
44.61	-.0080	-15.94	113.55	.0000	-.34	182.49	.0000	-.00
46.64	-.0062	-308.49	115.57	.0000	-.26	184.51	.0000	-.00
48.66	-.0046	-477.81	117.60	.0000	-.19	186.54	.0000	-.00
50.69	-.0032	-552.10	119.63	.0000	-.13	188.57	.0000	-.00
52.72	-.0021	-557.43	121.66	.0000	-.08	190.60	.0000	-.00
54.75	-.0012	-516.84	123.68	.0000	-.04	192.62	.0000	-.00
56.77	-.0005	-448.60	125.71	.0000	-.01	194.65	.0000	-.00
58.80	-.0001	-368.10	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0002	-285.97	129.77	.0000	.03	198.71	.0000	-.00
62.86	.0004	-209.53	131.79	.0000	.03	200.73	.0000	-.00
64.88	.0004	-143.15	133.82	.0000	.04	202.76	.0000	-.00
66.91	.0004	-68.87	135.85	.0000	.04			

LOAD CONDITION NO. 7
PILE JOINT NO. 1011

STRAN-PILE ANALYSIS

PAGE 20
DATE 10/05/76

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.5312	-7197.29	68.94	.0004	-45.25	137.88	.0000	.03
2.03	.4826	-4554.19	70.97	.0003	-16.68	139.91	.0000	.03
4.06	.4323	-1937.89	72.99	.0003	2.46	141.93	.0000	.03
6.08	.3811	627.81	75.02	.0002	13.92	143.96	.0000	.02
8.11	.3302	3120.82	77.05	.0001	19.52	145.99	-.0000	.02
10.14	.2806	5520.53	79.08	.0001	20.97	148.02	-.0000	.02
12.17	.2331	7676.32	81.10	.0000	19.73	150.04	-.0000	.01
14.19	.1888	9468.45	83.13	.0000	16.96	152.07	-.0000	.01
16.22	.1484	10809.83	85.16	.0000	13.55	154.10	-.0000	.01
18.25	.1125	11624.86	87.19	-.0000	10.09	156.13	-.0000	.00
20.28	.0809	11867.49	89.22	-.0000	6.96	158.15	-.0000	.00
22.30	.0546	11525.52	91.24	-.0000	4.36	160.18	-.0000	.00
24.33	.0336	10676.52	93.27	-.0000	2.35	162.21	-.0000	.00
26.36	.0174	9477.35	95.30	-.0000	.92	164.24	-.0000	-.00
28.39	.0055	8082.75	97.33	-.0000	-.01	166.26	-.0000	-.00
30.41	-.0027	6522.90	99.35	-.0000	-.54	168.29	-.0000	-.00
32.44	-.0079	5200.49	101.38	-.0000	-.76	170.32	-.0000	-.00
34.47	-.0107	3890.35	103.41	-.0000	-.76	172.35	-.0000	-.00
36.50	-.0118	2741.20	105.44	-.0000	-.68	174.37	-.0000	-.00
38.52	-.0116	1778.06	107.46	-.0000	-.59	176.40	-.0000	-.00
40.55	-.0106	1007.12	109.49	.0000	-.50	178.43	-.0000	-.00
42.58	-.0092	420.31	111.52	.0000	-.41	180.46	-.0000	-.00
44.61	-.0075	-.25	113.55	.0000	-.32	182.49	.0000	-.00
46.64	-.0059	-278.35	115.57	.0000	-.24	184.51	.0000	-.00
48.66	-.0044	-440.38	117.60	.0000	-.16	186.54	.0000	-.00
50.69	-.0031	-512.74	119.63	.0000	-.12	188.57	.0000	-.00
52.72	-.0020	-519.89	121.66	.0000	-.07	190.60	.0000	-.00
54.75	-.0011	-483.26	123.68	.0000	-.04	192.62	.0000	-.00
56.77	-.0005	-420.42	125.71	.0000	-.01	194.65	.0000	-.00
58.80	-.0001	-345.91	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0002	-269.35	129.77	.0000	.02	198.71	.0000	-.00
62.86	.0003	-197.86	131.79	.0000	.03	200.73	.0000	-.00
64.88	.0004	-135.65	133.82	.0000	.03	202.76	.0000	-.00
66.91	.0004	-84.66	135.85	.0000	.04			

LOAD CONDITION NO. 7
PILE JOINT NO. 1012

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.5401	-6099.11	68.94	.0004	-41.89	137.88	.0000	.04
2.03	.4890	-3532.89	70.97	.0003	-13.70	139.91	.0000	.03
4.06	.4364	-991.29	72.99	.0003	4.93	141.93	.0000	.03
6.08	.3834	1500.42	75.02	.0002	15.85	143.96	.0000	.03
8.11	.3310	3916.75	77.05	.0001	20.93	145.99	-.0000	.02
10.14	.2802	6241.77	79.08	.0001	21.93	148.02	-.0000	.02
12.17	.2320	8317.71	81.10	.0000	20.31	150.04	-.0000	.01
14.19	.1871	10026.47	83.13	.0000	17.26	152.07	-.0000	.01
16.22	.1465	11280.92	85.16	-.0000	13.64	154.10	-.0000	.01
18.25	.1100	12006.47	87.19	-.0000	10.05	156.13	-.0000	.00
20.28	.0786	12157.87	89.22	-.0000	6.85	158.15	-.0000	.00
22.30	.0524	11724.58	91.24	-.0000	4.21	160.18	-.0000	.00
24.33	.0316	10796.58	93.27	-.0000	2.20	162.21	-.0000	-.00
26.36	.0156	9533.02	95.30	-.0000	.78	164.24	-.0000	-.00
28.39	.0040	8088.34	97.33	-.0000	-.13	166.26	-.0000	-.00
30.41	-.0039	6591.81	99.35	-.0000	-.63	168.29	-.0000	-.00
32.44	-.0089	5144.69	101.38	-.0000	-.82	170.32	-.0000	-.00
34.47	-.0114	3820.07	103.41	-.0000	-.81	172.35	-.0000	-.00
36.50	-.0125	2664.82	105.44	-.0000	-.72	174.37	-.0000	-.00
38.52	-.0119	1701.99	107.46	-.0000	-.62	176.40	-.0000	-.00
40.55	-.0108	935.97	109.49	.0000	-.52	178.43	-.0000	-.00
42.58	-.0093	357.08	111.52	.0000	-.42	180.46	.0000	-.00
44.61	-.0076	-53.92	113.55	.0000	-.33	182.49	.0000	-.00
46.64	-.0059	-321.93	115.57	.0000	-.24	184.51	.0000	-.00
48.66	-.0043	-474.14	117.60	.0000	-.17	186.54	.0000	-.00
50.69	-.0030	-537.53	119.63	.0000	-.12	188.57	.0000	-.00
52.72	-.0019	-536.89	121.66	.0000	-.07	190.60	.0000	-.00
54.75	-.0011	-493.84	123.68	.0000	-.03	192.62	.0000	-.00
56.77	-.0004	-426.17	125.71	.0000	-.00	194.65	.0000	-.00
58.80	-.0000	-347.73	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0002	-268.59	129.77	.0000	.03	198.71	.0000	-.00
62.86	.0004	-195.50	131.79	.0000	.03	200.73	.0000	-.00
64.88	.0004	-132.43	133.82	.0000	.04	202.76	.0000	-.00
66.91	.0004	-81.17	135.85	.0000	.04			

S T R A N - P I L E   A N A L Y S I S

LOAD CONDITION NO. 8
PILE JOINT NO. 1010

PAGE 22
DATE 10/05/76

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.1142	-1341.61	68.94	.0001	-2.60	137.88	.0000	.01
2.03	.1018	-566.66	70.97	.0001	1.73	139.91	.0000	.01
4.06	.0891	190.06	72.99	.0000	4.22	141.93	-.0000	.01
6.08	.0765	911.46	75.02	.0000	5.34	143.96	-.0000	.01
8.11	.0643	1581.65	77.05	.0000	5.49	145.99	-.0000	.00
10.14	.0527	2165.62	79.08	.0000	5.03	148.02	-.0000	.00
12.17	.0420	2664.28	81.10	.0000	4.25	150.04	-.0000	.00
14.19	.0324	2972.67	83.13	-.0000	3.34	152.07	-.0000	.00
16.22	.0240	3086.11	85.16	-.0000	2.45	154.10	-.0000	.00
18.25	.0168	3033.87	87.19	-.0000	1.67	156.13	-.0000	.00
20.28	.0109	2849.82	89.22	-.0000	1.02	158.15	-.0000	.00
22.30	.0061	2571.22	91.24	-.0000	.53	160.18	-.0000	-.00
24.33	.0025	2233.46	93.27	-.0000	.19	162.21	-.0000	-.00
26.36	.0001	1868.34	95.30	-.0000	-.04	164.24	-.0000	-.00
28.39	-.0016	1502.46	97.33	-.0000	-.16	166.26	-.0000	-.00
30.41	-.0026	1156.41	99.35	-.0000	-.21	168.29	-.0000	-.00
32.44	-.0031	844.77	101.38	-.0000	-.22	170.32	-.0000	-.00
34.47	-.0032	576.48	103.41	-.0000	-.19	172.35	-.0000	-.00
36.50	-.0030	355.61	105.44	.0000	-.16	174.37	-.0000	-.00
38.52	-.0027	182.00	107.46	.0000	-.14	176.40	-.0000	-.00
40.55	-.0023	52.58	109.49	.0000	-.11	178.43	.0000	-.00
42.58	-.0018	-37.72	111.52	.0000	-.08	180.46	.0000	-.00
44.61	-.0014	-95.05	113.55	.0000	-.06	182.49	.0000	-.00
46.64	-.0010	-125.96	115.57	.0000	-.04	184.51	.0000	-.00
48.66	-.0007	-136.82	117.60	.0000	-.03	186.54	.0000	-.00
50.69	-.0004	-133.46	119.63	.0000	-.01	188.57	.0000	-.00
52.72	-.0002	-120.85	121.66	.0000	-.01	190.60	.0000	-.00
54.75	-.0001	-103.09	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-83.31	125.71	.0000	.01	194.65	.0000	-.00
58.80	.0001	-63.77	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0001	-45.98	129.77	.0000	.01	198.71	.0000	-.00
62.86	.0001	-30.79	131.79	.0000	.01	200.73	.0000	-.00
64.88	.0001	-18.54	133.82	.0000	.01	202.76	.0000	-.00
66.91	.0001	-9.23	135.85	.0000	.01			

STRAN-PILE ANALYSIS

LOAD CONDITION NO. 8
PILE JOINT NO. 1011

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.1076	-1691.41	68.94	.0001	-3.01	137.88	.0000	.01
2.03	.0960	-901.94	70.97	.0001	1.26	139.91	.0000	.01
4.06	.0848	-130.41	72.99	.0000	3.76	141.93	-.0000	.01
6.08	.0731	606.21	75.02	.0000	4.92	143.96	-.0000	.01
8.11	.0617	1292.07	77.05	.0000	5.15	145.99	-.0000	.00
10.14	.0508	1912.35	79.08	.0000	4.77	148.02	-.0000	.00
12.17	.0407	2407.75	81.10	.0000	4.06	150.04	-.0000	.00
14.19	.0315	2735.33	83.13	-.0000	3.21	152.07	-.0000	.00
16.22	.0235	2873.15	85.16	-.0000	2.38	154.10	-.0000	.00
18.25	.0166	2848.49	87.19	-.0000	1.63	156.13	-.0000	.00
20.28	.0109	2694.01	89.22	-.0000	1.01	158.15	-.0000	.00
22.30	.0063	2444.70	91.24	-.0000	.54	160.18	-.0000	-.00
24.33	.0028	2134.77	93.27	-.0000	.20	162.21	-.0000	-.00
26.36	.0003	1794.94	95.30	-.0000	-.02	164.24	-.0000	-.00
28.39	-.0013	1451.13	97.33	-.0000	-.14	166.26	-.0000	-.00
30.41	-.0023	1123.58	99.35	-.0000	-.20	168.29	-.0000	-.00
32.44	-.0028	826.77	101.38	-.0000	-.20	170.32	-.0000	-.00
34.47	-.0030	569.81	103.41	-.0000	-.18	172.35	-.0000	-.00
36.50	-.0028	357.08	105.44	-.0000	-.16	174.37	-.0000	-.00
38.52	-.0025	188.88	107.46	.0000	-.13	176.40	-.0000	-.00
40.55	-.0022	62.62	109.49	.0000	-.10	178.43	.0000	-.00
42.58	-.0017	-26.28	111.52	.0000	-.08	180.46	.0000	-.00
44.61	-.0013	-83.52	113.55	.0000	-.06	182.49	.0000	-.00
46.64	-.0010	-115.22	115.57	.0000	-.04	184.51	.0000	-.00
48.66	-.0007	-127.41	117.60	.0000	-.03	186.54	.0000	-.00
50.69	-.0004	-125.64	119.63	.0000	-.01	188.57	.0000	-.00
52.72	-.0002	-114.66	121.66	.0000	-.01	190.60	.0000	-.00
54.75	-.0001	-98.47	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-80.06	125.71	.0000	.01	194.65	.0000	-.00
58.80	.0001	-61.68	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0001	-44.79	129.77	.0000	.01	198.71	.0000	-.00
62.86	.0001	-30.27	131.79	.0000	.01	200.73	.0000	-.00
64.88	.0001	-18.49	133.82	.0000	.01	202.76	.0000	-.00
66.91	.0001	-9.48	135.85	.0000	.01			

LOAD CONDITION NO. 8
PILE JOINT NO. 1011

S T R A N - P I L E   A N A L Y S I S

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.1076	-1691.41	68.94	.0001	-3.01	137.88	.0000	.01
2.03	.0964	-901.94	70.97	.0001	1.26	139.91	.0000	.01
4.06	.0848	-130.41	72.99	.0000	3.76	141.93	-.0000	.01
6.08	.0731	606.21	75.02	.0000	4.92	143.96	-.0000	.01
8.11	.0617	1292.07	77.05	.0000	5.15	145.99	-.0000	.00
10.14	.0508	1912.35	79.08	.0000	4.77	148.02	-.0000	.00
12.17	.0407	2407.75	81.10	.0000	4.06	150.04	-.0000	.00
14.19	.0315	2735.33	83.13	-.0000	3.21	152.07	-.0000	.00
16.22	.0235	2873.15	85.16	-.0000	2.38	154.10	-.0000	.00
18.25	.0166	2848.49	87.19	-.0000	1.63	156.13	-.0000	.00
20.28	.0109	2694.01	89.22	-.0000	1.01	158.15	-.0000	.00
22.30	.0063	2444.70	91.24	-.0000	.54	160.18	-.0000	-.00
24.33	.0028	2134.77	93.27	-.0000	.20	162.21	-.0000	-.00
26.36	.0005	1794.94	95.30	-.0000	-.02	164.24	-.0000	-.00
28.39	-.0013	1451.13	97.33	-.0000	-.14	166.26	-.0000	-.00
30.41	-.0023	1123.58	99.35	-.0000	-.20	168.29	-.0000	-.00
32.44	-.0028	826.77	101.38	-.0000	-.20	170.32	-.0000	-.00
34.47	-.0030	569.81	103.41	-.0000	-.18	172.35	-.0000	-.00
36.50	-.0028	357.08	105.44	-.0000	-.16	174.37	-.0000	-.00
38.52	-.0025	188.88	107.46	.0000	-.13	176.40	-.0000	-.00
40.55	-.0022	62.62	109.49	.0000	-.10	178.43	.0000	-.00
42.58	-.0017	-26.28	111.52	.0000	-.08	180.46	.0000	-.00
44.61	-.0013	-83.52	113.55	.0000	-.06	182.49	.0000	-.00
46.64	-.0010	-115.22	115.57	.0000	-.04	184.51	.0000	-.00
48.66	-.0007	-127.41	117.60	.0000	-.03	186.54	.0000	-.00
50.69	-.0004	-125.64	119.63	.0000	-.01	188.57	.0000	-.00
52.72	-.0002	-114.68	121.66	.0000	-.01	190.60	.0000	-.00
54.75	-.0001	-98.47	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-80.06	125.71	.0000	.01	194.65	.0000	-.00
58.80	.0001	-61.68	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0001	-44.79	129.77	.0000	.01	198.71	.0000	-.00
62.86	.0001	-30.27	131.79	.0000	.01	200.73	.0000	-.00
64.88	.0001	-18.49	133.82	.0000	.01	202.76	.0000	-.00
66.91	.0001	-9.48	135.85	.0000	.01			

S T R A N - P I L E   A N A L Y S I S

LOAD CONDITION NO. 8
PILE JOINT NO. 1012

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)	PILE LENGTH (FT)	DEFLECTION NORMAL TO PILE (INCHES)	BENDING MOMENT (IN-KIPS)
0.00	.1108	-1490.17	68.94	.0001	-2.80	137.88	.0000	.01
2.03	.0989	-712.01	70.97	.0001	1.49	139.91	.0000	.01
4.06	.0868	48.01	72.99	.0000	3.97	141.93	-.0000	.01
6.08	.0747	772.93	75.02	.0000	5.11	143.96	-.0000	.01
8.11	.0629	1446.94	77.05	.0000	5.30	145.99	-.0000	.00
10.14	.0516	2055.27	79.08	.0000	4.88	148.02	-.0000	.00
12.17	.0412	2558.45	81.10	.0000	4.14	150.04	-.0000	.00
14.19	.0319	2855.81	83.13	-.0000	3.27	152.07	-.0000	.00
16.22	.0236	2977.18	85.16	-.0000	2.41	154.10	-.0000	.00
18.25	.0166	2937.06	87.19	-.0000	1.64	156.13	-.0000	.00
20.28	.0108	2764.96	89.22	-.0000	1.01	158.15	-.0000	.00
22.30	.0062	2502.61	91.24	-.0000	.53	160.18	-.0000	-.00
24.33	.0027	2178.81	93.27	-.0000	.19	162.21	-.0000	-.00
26.36	.0002	1826.72	95.30	-.0000	-.03	164.24	-.0000	-.00
28.39	-.0015	1472.47	97.33	-.0000	-.15	166.26	-.0000	-.00
30.41	-.0025	1136.38	99.35	-.0000	-.20	168.29	-.0000	-.00
32.44	-.0030	832.90	101.38	-.0000	-.21	170.32	-.0000	-.00
34.47	-.0031	571.01	103.41	-.0000	-.19	172.35	-.0000	-.00
36.50	-.0029	354.86	105.44	.0000	-.16	174.37	-.0000	-.00
38.52	-.0026	184.52	107.46	.0000	-.13	176.40	-.0000	-.00
40.55	-.0022	57.13	109.49	.0000	-.10	178.43	.0000	-.00
42.58	-.0018	-32.12	111.52	.0000	-.08	180.46	.0000	-.00
44.61	-.0014	-89.16	113.55	.0000	-.06	182.49	.0000	-.00
46.64	-.0010	-120.31	115.57	.0000	-.04	184.51	.0000	-.00
48.66	-.0007	-131.76	117.60	.0000	-.03	186.54	.0000	-.00
50.69	-.0004	-129.16	119.63	.0000	-.01	188.57	.0000	-.00
52.72	-.0002	-117.40	121.66	.0000	-.01	190.60	.0000	-.00
54.75	-.0001	-100.45	123.68	.0000	.00	192.62	.0000	-.00
56.77	.0000	-81.41	125.71	.0000	.01	194.65	.0000	-.00
58.80	.0001	-62.51	127.74	.0000	.01	196.68	.0000	-.00
60.83	.0001	-45.23	129.77	.0000	.01	198.71	.0000	-.00
62.86	.0001	-30.42	131.79	.0000	.01	200.73	.0000	-.00
64.88	.0001	-18.45	133.82	.0000	.01	202.76	.0000	-.00
66.91	.0001	-9.32	135.85	.0000	.01			

S T R A N - J O I N T D E F L E C T I O N S A N D R O T A T I O N S

LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	DEFLECTION IN INCHES Y	DEFLECTION IN INCHES Z	ROTATION IN RADIANS X	ROTATION IN RADIANS Y	ROTATION IN RADIANS Z	REMARKS
101	.05264	.09592	-.00010	.00001	-.00000	.00000	
102	.05264	.09424	-.00067	.00001	-.00000	.00001	
103	.05264	.09256	-.00125	.00001	-.00000	.00001	
104	.05119	.09508	.00066	.00001	-.00000	.00001	
105	.05119	.09340	.00010	.00001	-.00000	.00001	
106	.04973	.09424	.00142	.00001	-.00000	.00002	
201	.05324	.09716	-.00010	.00001	-.00000	-.00000	
202	.05321	.09546	-.00069	.00001	-.00000	.00001	
203	.05319	.09380	-.00125	.00001	-.00000	.00001	
204	.05174	.09651	.00065	.00001	-.00000	.00001	
205	.05174	.09461	.00012	.00001	-.00000	.00001	
206	.05023	.09545	.00142	.00001	-.00000	.00002	
301	.05370	.09837	-.00010	.00001	-.00000	-.00000	
303	.05364	.09486	-.00123	.00000	-.00000	.00002	
306	.05086	.09672	.00142	.00001	-.00000	.00002	
401	.05439	.10100	-.00010	.00001	-.00001	-.00001	
403	.05473	.09637	-.00123	.00001	.00001	.00002	
406	.05230	.09879	.00142	-.00000	.00000	.00002	
501	.05498	.10131	-.00003	.00001	-.00001	-.00001	
502	.05476	.09896	-.00132	.00001	-.00000	.00002	
503	.05451	.09695	-.00095	.00001	.00001	.00002	
504	.05324	.09986	.00064	.00001	-.00000	.00001	
505	.05315	.09789	.00059	.00001	.00000	.00000	
506	.05200	.09867	.00110	-.00000	.00000	.00002	
507	.05475	.10098	.00018	.00001	-.00001	-.00001	
508	.05464	.09639	-.00098	.00001	.00001	.00002	
509	.05130	.09868	.00100	-.00000	.00000	.00002	
510	.05499	.10131	-.00005	.00001	-.00001	-.00001	
511	.05443	.09691	-.00156	.00001	.00001	.00002	
512	.05199	.09856	.00173	-.00000	.00000	.00002	
513	.05460	.10100	.00029	.00001	-.00002	-.00001	
514	.05466	.09638	.00037	.00000	.00004	.00002	
601	.05563	.10171	.00010	.00001	-.00001	-.00001	
603	.05421	.09777	-.00037	.00001	.00001	.00002	
606	.05156	.09846	.00039	-.00001	.00000	.00002	
611	.05626	.10173	.00007	.00001	-.00001	-.00001	
612	.05644	.12217	-.00012	.00038	-.00000	.00000	
613	.05659	.09779	-.00030	.00001	-.00001	.00006	
621	.05645	.10181	.00022	.00000	-.00001	-.00002	
622	.05565	.10802	-.00252	.00000	.00000	-.00000	
623	.05306	.09829	.00024	.00001	.00001	.00003	
624	.06041	.10412	.00022	.00001	-.00001	.00003	
625	.05440	.09998	.00420	-.00000	-.00001	.00001	
626	.05104	.09801	-.00036	-.00001	.00000	.00003	
651	.05655	.10152	.00051	-.00001	.00000	-.00002	
653	.05538	.09812	.00092	-.00000	.00001	.00003	
655	.05040	.09718	-.00117	-.00002	.00001	.00003	
661	.05569	.10158	.00002	.00001	.00001	-.00007	

STRAN - JOINT DEFLECTIONS AND ROTATIONS

LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	Y	Z	ROTATION IN RADIANS X	Y	Z	REMARKS
662	.05615	.17876	-.00012	.00036	.00000	-.00000	
663	.05657	.09817	-.00024	.00003	.00001	.00012	
701	.05591	.10001	.00036	-.00001	.00001	-.00003	
702	.05434	.09711	.00101	-.00001	-.00000	-.00000	
703	.05265	.09687	.00184	-.00001	.00001	.00004	
704	.05276	.09799	.00052	-.00000	.00000	.00001	
705	.05245	.09571	.00015	-.00000	-.00000	.00001	
706	.04958	.09577	-.00219	-.00002	.00000	.00003	
707	.05548	.09929	.00036	-.00001	.00001	-.00003	
708	.05326	.09598	.00245	-.00001	.00001	.00004	
709	.04882	.09586	-.00279	-.00002	.00000	.00003	
710	.05591	.09998	.00015	-.00002	.00001	-.00001	
711	.05195	.09642	-.00302	-.00002	.00001	.00002	
712	.04959	.09468	.00301	-.00002	.00001	.00002	
801	.04650	.08630	-.00031	-.00005	.00003	-.00005	
802	.04638	.08322	.00469	-.00004	.00001	.00001	
803	.04610	.07979	.00957	-.00007	.00004	.00003	
804	.04503	.08407	-.00416	-.00002	.00003	-.00000	
805	.04474	.08186	-.00095	-.00002	.00000	.00001	
806	.04510	.08266	-.00934	-.00006	.00002	.00004	
807	.04590	.08522	-.00039	-.00005	.00003	-.00005	
808	.04676	.07927	.01153	-.00007	.00004	.00003	
809	.04384	.08295	-.01118	-.00006	.00002	.00004	
810	.04648	.08630	-.00014	-.00006	.00004	-.00002	
811	.04435	.07878	-.00228	-.00007	.00003	.00002	
812	.04509	.08064	.00251	-.00006	.00002	.00002	
901	.02977	.05767	.00056	-.00008	.00004	-.00005	
902	.03042	.05480	.00943	-.00006	.00002	.00002	
903	.03105	.05016	.01767	-.00007	.00005	.00004	
904	.02922	.05550	-.00921	-.00005	.00004	.00001	
905	.02911	.05369	-.00015	-.00003	.00002	-.00001	
906	.03100	.05469	-.01820	-.00008	.00004	.00002	
907	.02931	.05708	.00061	-.00008	.00004	-.00005	
908	.03183	.04962	.01996	-.00007	.00005	.00004	
909	.03141	.05530	-.02055	-.00008	.00004	.00002	
910	.02990	.05701	-.00023	-.00008	.00004	-.00002	
911	.02858	.04875	.00042	-.00007	.00004	.00002	
912	.03179	.05190	-.00015	-.00008	.00004	.00002	
1001	.01259	.02291	.00096	-.00009	.00004	-.00003	
1002	.01509	.02648	.01089	-.00008	.00002	.00001	
1003	.01514	.02222	.02253	-.00007	.00004	.00002	
1004	.01428	.02693	-.01279	-.00006	.00006	.00000	
1005	.01422	.02592	.00176	-.00004	.00003	-.00000	
1006	.01157	.02492	-.02345	-.00008	.00006	.00002	
1007	.01212	[illegible]	.00123	-.00009	.00004	-.00003	
1008	.01557	.02169	.02469	-.00007	.00004	.00002	
1009	.01137	.02517	-.02584	-.00008	.00006	.00001	
1010	-.02565	-.00057	.00021	.00000	-.00012	-.00001	OBLIQUE
1010	.01242	.02268	.00011	-.00010	.00005	-.00003	GLOBAL

STRAN - JOINT DEFLECTIONS AND ROTATIONS

LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	Y	Z	ROTATION IN RADIANS X	Y	Z	REMARKS
1011	.01157	-.01988	.00643	.00009	.00005	.00001	OBLIQUE
1011	.01210	.02036	.00308	-.00009	.00005	.00002	GLOBAL
1012	.01150	.02041	-.00658	-.00009	.00006	.00001	OBLIQUE
1012	.01150	.02122	-.00314	-.00009	.00006	.00002	GLOBAL

S T R A N - J O I N T D E F L E C T I O N S A N D R O T A T I O N S

LOAD CONDITION NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	/----------DEFLECTION IN INCHES---------/ X	Y	Z	/----------ROTATION IN RADIANS----------/ X	Y	Z	/---REMARKS---/
101	-.03802	-.06871	-.00004	-.00001	.00000	.00000	
102	-.03902	-.06705	.00044	-.00001	.00000	-.00001	
103	-.03882	-.06658	.00091	-.00001	.00000	-.00001	
104	-.03790	-.06818	-.00062	-.00001	.00000	-.00001	
105	-.03790	-.06711	-.00016	-.00001	.00000	-.00000	
106	-.03898	-.06705	-.00121	-.00001	.00000	-.00001	
201	-.03952	-.06909	-.00004	-.00001	.00000	.00000	
202	-.03950	-.06801	.00045	-.00001	.00000	-.00001	
203	-.03926	-.06756	.00091	-.00001	.00000	-.00001	
204	-.03857	-.06915	-.00062	-.00001	.00000	-.00001	
205	-.03857	-.06807	-.00017	-.00001	.00000	-.00000	
206	-.03741	-.06800	-.00121	-.00001	.00000	-.00001	
301	-.03972	-.07005	-.00004	-.00001	.00000	.00000	
303	-.03902	-.06842	.00091	-.00000	.00000	-.00001	
306	-.03792	-.06900	-.00121	-.00001	.00000	-.00001	
401	-.04031	-.07276	-.00004	-.00001	.00001	.00001	
403	-.04000	-.06906	.00091	-.00001	-.00000	-.00001	
405	-.03947	-.07152	-.00121	.00000	-.00000	-.00002	
501	-.04076	-.07303	-.00009	-.00001	.00001	.00001	
502	-.04001	-.07146	.00091	-.00001	.00000	-.00001	
503	-.04045	-.07008	.00071	-.00001	-.00000	-.00001	
504	-.03960	-.07208	-.00059	-.00001	.00000	-.00001	
505	-.03954	-.07075	-.00044	-.00001	-.00000	-.00000	
506	-.03874	-.07150	-.00100	.00000	-.00000	-.00002	
507	-.04059	-.07278	-.00024	-.00001	.00001	.00001	
508	-.04054	-.06975	.00072	-.00001	-.00000	-.00001	
509	-.03825	-.07151	-.00097	.00000	-.00000	-.00002	
510	-.04076	-.07303	-.00008	-.00001	.00001	.00001	
511	-.04059	-.07006	.00115	-.00001	-.00000	-.00001	
512	-.03977	-.07123	-.00144	.00000	-.00000	-.00002	
513	-.04002	-.07278	-.00031	-.00001	.00001	.00001	
514	-.04000	-.06973	-.00028	.00000	-.00003	-.00001	
601	-.04139	-.07357	-.00018	-.00001	.00001	.00001	
603	-.04025	-.07005	.00027	-.00001	-.00001	-.00001	
605	-.03950	-.07128	-.00051	.00000	-.00000	-.00002	
611	-.04117	-.07357	-.00005	-.00001	.00001	.00001	
612	-.04125	-.08327	.00169	-.00025	.00000	-.00001	
613	-.04135	-.07356	.00034	-.00000	.00000	-.00003	
621	-.04105	-.07550	-.00026	-.00000	.00001	.00001	
622	-.04138	-.07603	.00159	-.00000	-.00000	.00000	
623	-.03998	-.07105	-.00016	-.00000	-.00001	-.00002	
624	-.04040	-.07490	-.00090	-.00001	.00001	-.00002	
625	-.04059	-.07202	-.00276	-.00000	.00001	-.00000	
626	-.03915	-.07106	.00001	.00001	-.00000	-.00002	
631	-.04201	-.07326	-.00032	.00000	-.00000	.00002	
633	-.03967	-.07103	-.00067	.00000	-.00001	-.00002	
635	-.03769	-.07053	.00058	.00001	-.00000	-.00002	
641	-.04102	-.07339	-.00002	-.00001	-.00000	.00005	

S T R A N - J O I N T D E F L E C T I O N S A N D R O T A T I O N S

LOAD CONDITION NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	Y	Z	ROTATION IN RADIANS X	Y	Z	REMARKS
662	-.04128	-.12090	.00189	-.00024	.00000	-.00000	
663	-.04155	-.07106	.00033	-.00002	-.00001	-.00007	
701	-.04156	-.07253	-.00036	.00001	-.00001	.00002	
702	-.04043	-.07039	-.00197	-.00002	.00000	-.00000	
703	-.03921	-.07032	-.00155	.00001	-.00001	-.00002	
704	-.03925	-.07102	-.00962	-.00001	.00001	-.00001	
705	-.03910	-.06945	-.00321	.00000	.00002	-.00001	
706	-.03709	-.06952	.00150	.00001	-.00000	-.00002	
707	-.04128	-.07200	-.00030	.00001	-.00001	.00002	
708	-.03956	-.06961	-.00171	.00001	-.00001	-.00002	
709	-.03655	-.06959	.00174	.00001	-.00000	-.00002	
710	-.04155	-.07251	-.00020	.00001	-.00001	.00001	
711	-.03867	-.06999	.00225	.00001	-.00001	-.00001	
712	-.03710	-.06869	-.00240	.00002	-.00000	-.00001	
801	-.03475	-.06292	.00022	.00004	-.00003	.00003	
802	-.03460	-.06040	-.00363	.00003	-.00001	-.00001	
803	-.03441	-.05820	-.00699	.00005	-.00003	-.00002	
804	-.03347	-.06108	.00274	.00002	-.00002	-.00001	
805	-.03342	-.05963	.00043	.00001	-.00000	.00001	
806	-.03365	-.06019	.00647	.00005	-.00001	-.00003	
807	-.03438	-.06223	.00029	.00004	-.00003	.00003	
808	-.03462	-.05795	-.00842	.00005	-.00003	-.00002	
809	-.03500	-.06041	.00786	.00005	-.00001	-.00003	
810	-.03475	-.06292	.00002	.00004	-.00003	.00002	
811	-.03512	-.05746	.00175	.00005	-.00003	-.00001	
812	-.03364	-.05873	-.00203	.00004	-.00001	-.00001	
901	-.02249	-.04236	-.00036	.00006	-.00003	.00003	
902	-.02295	-.04009	-.00695	.00005	-.00001	-.00001	
903	-.02338	-.03679	-.01297	.00005	-.00003	-.00002	
904	-.02209	-.04060	.00659	.00004	-.00003	-.00000	
905	-.02203	-.03948	-.00007	.00002	-.00001	.00001	
906	-.02403	-.04020	.01293	.00006	-.00003	-.00001	
907	-.02226	-.04195	-.00035	.00006	-.00003	.00003	
908	-.02393	-.03643	-.01465	.00005	-.00003	-.00002	
909	-.02377	-.04049	.01461	.00006	-.00003	-.00001	
910	-.02257	-.04232	.00010	.00006	-.00003	.00002	
911	-.02156	-.03575	-.00021	.00005	-.00003	-.00001	
912	-.02403	-.03804	-.00010	.00005	-.00003	-.00001	
1001	-.00950	-.01696	-.00059	.00007	-.00003	.00002	
1002	-.01151	-.01958	-.00797	.00005	-.00002	-.00000	
1003	-.01151	-.01648	-.01656	.00005	-.00003	-.00002	
1004	-.01091	-.01992	.00921	.00004	-.00004	-.00000	
1005	-.01088	-.01919	-.00153	.00003	-.00002	.00000	
1006	-.00865	-.01843	.01673	.00006	-.00004	-.00001	
1007	-.00934	-.01676	-.00077	.00007	-.00003	.00002	
1008	-.01182	-.01626	-.01818	.00005	-.00003	-.00001	
1009	-.00872	-.01662	.01851	.00006	-.00004	-.00001	
1010	.01929	.00017	-.00013	-.00000	.00009	.00000	OBLIQUE
1010	-.00949	-.01660	-.00010	.00008	-.00004	.00002	GLOBAL

S T R A N - J O I N T D E F L E C T I O N S A N D R O T A T I O N S

LOAD CONDITION NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	DEFLECTION IN INCHES Y	DEFLECTION IN INCHES Z	ROTATION IN RADIANS X	ROTATION IN RADIANS Y	ROTATION IN RADIANS Z	REMARKS
1011	-.00844	.01500	-.00471	-.00007	-.00004	-.00001	OBLIQUE
1011	-.00926	-.01510	-.00218	.00006	-.00004	-.00001	GLOBAL
1012	-.00880	-.01519	.00467	.00007	-.00004	-.00001	OBLIQUE
1012	-.00880	-.01575	.00211	.00007	-.00004	-.00001	GLOBAL

STRAN - JOINT DEFLECTIONS AND ROTATIONS

LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	DEFLECTION IN INCHES Y	DEFLECTION IN INCHES Z	ROTATION IN RADIANS X	ROTATION IN RADIANS Y	ROTATION IN RADIANS Z	REMARKS
101	.15560	.28748	-.00041	.00002	-.00001	.00001	
102	.15560	.28179	-.00195	.00002	-.00001	.00004	
103	.15560	.27609	-.00343	.00002	-.00001	.00004	
104	.15068	.28464	.00191	.00002	-.00001	.00003	
105	.15067	.27894	.00042	.00002	-.00001	.00003	
106	.14574	.28178	.00424	.00002	-.00001	.00005	
201	.15721	.29115	-.00041	.00002	-.00001	.00001	
202	.15713	.28540	-.00197	.00002	-.00001	.00004	
203	.15706	.27976	-.00343	.00002	-.00001	.00004	
204	.15217	.28827	.00188	.00002	-.00001	.00003	
205	.15216	.28251	.00046	.00002	-.00001	.00003	
206	.14708	.28536	.00424	.00002	-.00001	.00005	
301	.15548	.29469	-.00041	.00002	-.00000	.00000	
303	.15466	.28280	-.00344	.00001	-.00001	.00005	
306	.14867	.28902	.00424	.00002	-.00002	.00006	
401	.16028	.30126	-.00039	.00001	-.00003	-.00002	
403	.16106	.28572	-.00343	.00003	.00002	.00006	
406	.15542	.29333	.00425	-.00001	.00001	.00007	
501	.16180	.30170	-.00017	.00001	-.00003	-.00003	
502	.16108	.29366	-.00369	.00003	-.00001	.00005	
503	.16027	.28706	-.00257	.00003	.00002	.00006	
504	.15611	.29663	.00170	.00002	-.00000	.00004	
505	.15564	.29022	.00179	.00003	.00000	.00001	
506	.15241	.29266	.00326	-.00002	.00001	.00008	
507	.16127	.30049	.00047	.00001	-.00003	-.00002	
508	.16126	.28539	-.00249	.00003	.00002	.00006	
509	.15018	.29272	.00260	-.00002	.00001	.00007	
510	.16179	.30166	-.00024	.00001	-.00003	-.00002	
511	.16003	.28692	-.00438	.00003	.00002	.00006	
512	.15238	.29233	.00510	-.00002	.00001	.00007	
513	.16170	.30153	.00065	.00005	-.00006	-.00000	
514	.16115	.28574	.00135	.00002	.00011	.00004	
601	.16400	.30222	.00025	.00001	-.00003	-.00003	
603	.15918	.28897	-.00082	.00003	.00003	.00007	
606	.15094	.29166	.00111	-.00002	.00001	.00008	
611	.16733	.30257	.00257	-.00001	-.00000	-.00005	
612	.16813	.42489	.01193	.00056	-.00000	-.00001	
613	.16804	.28911	.00009	.00002	-.00003	.00028	
621	.16538	.30160	.00064	-.00001	-.00001	-.00004	
622	.16415	.32003	-.00776	-.00000	.00001	.00001	
623	.15708	.28977	.00105	.00001	.00003	.00008	
624	.17531	.30946	-.00010	.00002	-.00001	.00007	
625	.15975	.29742	.01522	-.00001	-.00002	.00002	
626	.14915	.28967	-.00118	-.00004	.00001	.00008	
651	.16509	.29917	.00094	-.00004	.00001	-.00006	
653	.15620	.28852	.00313	-.00002	.00004	.00009	
656	.14698	.28691	-.00366	-.00005	.00002	.00008	
661	.16376	.29931	.00213	-.00002	.00005	-.00015	

S T R A N - J O I N T D E F L E C T I O N S A N D R O T A T I O N S

LOAD CONDITION NO. 3

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	DEFLECTION IN INCHES Y	DEFLECTION IN INCHES Z	ROTATION IN RADIANS X	ROTATION IN RADIANS Y	ROTATION IN RADIANS Z	REMARKS
602	.10504	.50286	.01191	.00046	.00002	-.00001	
603	.10616	.28866	.00061	.00006	.00005	.00034	
701	.16252	.29429	.00114	-.00005	.00003	-.00008	
702	.15939	.28585	.00783	.00001	-.00001	-.00000	
703	.15367	.28417	.00601	-.00005	.00004	.00011	
704	.15356	.28854	.01245	-.00001	.00002	.00004	
705	.15265	.28155	.00792	-.00002	-.00004	.00005	
706	.14431	.28211	-.00677	-.00007	.00002	.00008	
707	.16143	.29242	.00106	-.00005	.00003	-.00008	
708	.15570	.28152	.00786	-.00005	.00004	.00011	
709	.14203	.28242	-.00878	-.00007	.00002	.00008	
710	.16257	.29420	.00029	-.00006	.00003	-.00004	
711	.15174	.28286	-.00834	-.00007	.00004	.00006	
712	.14434	.27949	.00858	-.00007	.00002	.00007	
801	.13536	.25327	-.00079	-.00015	.00009	-.00015	
802	.13502	.24473	.00800	-.00013	.00003	.00003	
803	.13428	.23496	.02817	-.00019	.00010	.00010	
804	.13090	.24710	-.01297	-.00005	.00006	.00001	
805	.13002	.24072	-.00498	-.00005	.00001	.00002	
806	.13051	.24291	-.02765	-.00018	.00005	.00012	
807	.13362	.25014	-.00094	-.00015	.00009	-.00015	
808	.13629	.23323	.03374	-.00019	.00011	.00010	
809	.12714	.24373	-.03291	-.00018	.00005	.00012	
810	.13535	.25326	-.00042	-.00016	.00011	-.00005	
811	.12920	.23203	-.00628	-.00020	.00010	.00007	
812	.13049	.23698	.00706	-.00018	.00005	.00006	
901	.08766	.17203	.00171	-.00023	.00012	-.00014	
902	.08952	.16427	.02659	-.00018	.00005	.00004	
903	.09111	.15043	.05135	-.00021	.00013	.00012	
904	.08609	.16580	-.02604	-.00014	.00012	.00001	
905	.08580	.16107	-.00105	-.00010	.00005	.00000	
906	.09338	.16359	-.05302	-.00022	.00011	.00006	
907	.08611	.16941	.00199	-.00023	.00012	-.00014	
908	.09360	.14845	.05797	-.00021	.00013	.00012	
909	.09218	.16478	-.05974	-.00022	.00011	.00006	
910	.08805	.17105	-.00069	-.00025	.00012	-.00006	
911	.08594	.14635	.00122	-.00020	.00012	.00006	
912	.09335	.15408	-.00030	-.00022	.00012	.00006	
1001	.03708	.06970	.00292	-.00027	.00013	-.00012	
1002	.04510	.08178	.03173	-.00027	.00008	.00001	
1003	.04527	.06793	.06555	-.00020	.00012	.00008	
1004	.04361	.08250	-.03700	-.00021	.00021	.00000	
1005	.04203	.07918	.00482	-.00015	.00008	.00001	
1006	.03498	.07596	-.06833	-.00024	.00016	.00006	
1007	.03600	.06808	.00364	-.00027	.00013	-.00011	
1008	.04609	.06603	.07165	-.00020	.00012	.00008	
1009	.03418	.07670	-.07549	-.00024	.00017	.00005	
1010	-.07834	-.00227	.00070	.00002	-.00036	-.00001	OBLIQUE
1010	.03716	.06900	.00051	-.00051	.00016	-.00007	GLOBAL

S T R A N - J O I N T D E F L E C T I O N S A N D R O T A T I O N S

LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	Y	Z	ROTATION IN RADIANS X	Y	Z	REMARKS
1011	.03589	-.06045	.01909	.00027	.00016	.00003	OBLIQUE
1011	.03638	.06248	.00889	-.00027	.00016	.00005	GLOBAL
1012	.03477	.06272	-.01954	-.00028	.00017	.00003	OBLIQUE
1012	.03477	.06508	-.00895	-.00028	.00016	.00006	GLOBAL

S T R A N - J O I N T D E F L E C T I O N S A N D R O T A T I O N S

LOAD CONDITION NO. 4

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	Y	Z	ROTATION IN RADIANS X	Y	Z	REMARKS
101	-.08914	-.16326	-.00097	-.00002	.00001	.00000	
102	-.08914	-.16132	.00038	-.00002	.00001	-.00001	
103	-.08914	-.15957	.00169	-.00002	.00001	-.00002	
104	-.08747	-.16229	-.00267	-.00002	.00001	-.00001	
105	-.08746	-.16034	-.00135	-.00002	.00001	-.00001	
106	-.08578	-.16131	-.00438	-.00002	.00001	-.00002	
201	-.09053	-.16608	-.00097	-.00002	.00001	.00000	
202	-.09049	-.16411	.00040	-.00002	.00001	-.00001	
203	-.09045	-.16219	.00169	-.00002	.00001	-.00002	
204	-.08879	-.16509	-.00265	-.00002	.00001	-.00001	
205	-.08879	-.16312	-.00136	-.00002	.00001	-.00001	
206	-.08704	-.16409	-.00438	-.00002	.00001	-.00002	
301	-.09173	-.16884	-.00097	-.00002	.00000	.00001	
303	-.09195	-.16473	.00169	-.00001	.00001	-.00002	
306	-.08846	-.16693	-.00438	-.00002	.00001	-.00002	
401	-.09359	-.17436	-.00098	-.00001	.00002	.00002	
403	-.09417	-.16853	.00169	-.00002	-.00001	-.00003	
406	-.09119	-.17160	-.00438	-.00000	-.00000	-.00003	
501	-.09456	-.17498	-.00110	-.00001	.00002	.00002	
502	-.09420	-.17210	.00144	-.00002	.00001	-.00002	
503	-.09361	-.16947	.00121	-.00002	-.00001	-.00003	
504	-.09235	-.17319	-.00250	-.00002	.00001	-.00002	
505	-.09220	-.17075	-.00185	-.00002	-.00000	-.00000	
506	-.09007	-.17178	-.00343	-.00000	-.00000	-.00003	
507	-.09411	-.17432	-.00142	-.00001	.00002	.00002	
508	-.09436	-.16858	.00123	-.00002	-.00001	-.00003	
509	-.08996	-.17176	-.00398	-.00000	-.00000	-.00003	
510	-.09457	-.17499	-.00102	-.00001	.00002	.00002	
511	-.09370	-.16943	.00229	-.00002	-.00001	-.00003	
512	-.09065	-.17160	-.00493	-.00000	-.00000	-.00003	
513	-.09416	-.17429	-.00170	-.00002	.00003	.00002	
514	-.09441	-.16848	-.00119	.00001	-.00007	-.00003	
601	-.09595	-.17573	-.00135	-.00001	.00002	.00003	
603	-.09328	-.17073	.00014	-.00002	-.00001	-.00004	
606	-.09040	-.17203	-.00287	.00000	-.00000	-.00003	
611	-.09559	-.17575	-.00214	.00000	-.00000	.00001	
612	-.09569	-.19169	-.02515	-.00040	.00000	-.00000	
613	-.09578	-.17074	-.00104	.00001	.00002	-.00005	
621	-.09707	-.17609	-.00159	-.00001	.00001	.00003	
622	-.09387	-.18427	-.00037	-.00001	-.00001	.00000	
623	-.09270	-.17162	-.00095	-.00001	-.00001	-.00004	
624	-.10428	-.17649	-.00730	-.00001	.00002	-.00003	
625	-.09363	-.17571	-.00832	-.00001	.00002	-.00001	
626	-.08976	-.17192	-.00175	.00001	-.00001	-.00003	
651	-.09739	-.17581	-.00177	.00000	.00000	.00004	
653	-.09213	-.17176	-.00210	-.00000	-.00001	-.00005	
656	-.08808	-.17107	-.00050	.00002	-.00001	-.00003	
661	-.09549	-.17587	-.00217	.00000	-.00005	.00008	

STRAN - JOINT DEFLECTIONS AND ROTATIONS

LOAD CONDITION NO. 4

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	DEFLECTION IN INCHES Y	DEFLECTION IN INCHES Z	ROTATION IN RADIANS X	ROTATION IN RADIANS Y	ROTATION IN RADIANS Z	REMARKS
662	-.09598	-.25270	-.02520	-.00039	.00001	.00001	
665	-.09645	-.17181	-.00101	-.00003	.00002	-.00013	
701	-.09648	-.17465	-.00184	.00000	-.00001	.00005	
702	-.09408	-.17084	-.03806	-.00012	.00001	.00000	
703	-.09160	-.17069	-.00360	.00001	-.00001	-.00006	
704	-.09189	-.17194	-.04692	.00004	-.00007	-.00003	
705	-.09151	-.16898	-.03832	.00005	.00011	-.00001	
706	-.08772	-.16907	.00111	.00003	-.00001	-.00003	
707	-.09576	-.17353	-.00155	.00000	-.00001	.00005	
708	-.09251	-.16921	-.00407	.00001	-.00001	-.00006	
709	-.08675	-.16922	.00205	.00003	-.00001	-.00003	
710	-.09655	-.17478	-.00107	.00002	-.00001	.00003	
711	-.09031	-.16989	.00511	.00003	-.00002	-.00003	
712	-.08774	-.16763	-.00732	.00003	-.00001	-.00003	
801	-.08279	-.15563	-.00092	.00008	-.00005	.00010	
802	-.08243	-.15053	-.01981	-.00002	-.00001	-.00002	
803	-.08187	-.14548	-.01657	.00010	-.00006	-.00007	
804	-.08056	-.15183	-.02170	.00005	-.00007	-.00001	
805	-.08014	-.14867	-.02429	.00004	.00003	-.00000	
806	-.08182	-.14951	.01307	.00010	-.00002	-.00006	
807	-.08162	-.15349	-.00069	.00008	-.00005	.00010	
808	-.08310	-.14425	-.01947	.00010	-.00006	-.00007	
809	-.07998	-.15000	.01621	.00010	-.00002	-.00006	
810	-.08287	-.15556	-.00045	.00009	-.00006	.00004	
811	-.07876	-.14568	.00449	.00011	-.00006	-.00004	
812	-.08160	-.14611	-.00675	.00010	-.00003	-.00003	
901	-.05628	-.10912	-.00252	.00013	-.00007	.00010	
902	-.05691	-.10459	-.01655	.00010	-.00003	-.00002	
903	-.05729	-.09723	-.03067	.00012	-.00008	-.00008	
904	-.05589	-.10511	.01562	.00008	-.00007	-.00000	
905	-.05551	-.10275	-.00136	.00005	-.00003	-.00000	
906	-.06045	-.10373	.02858	.00013	-.00007	-.00003	
907	-.05509	-.10710	-.00266	.00013	-.00007	.00010	
908	-.05899	-.09570	-.03455	.00012	-.00008	-.00008	
909	-.05978	-.10444	.03254	.00013	-.00007	-.00003	
910	-.05863	-.10895	-.00026	.00013	-.00007	.00004	
911	-.05288	-.09472	.00034	.00012	-.00007	-.00003	
912	-.06045	-.09866	-.00227	.00013	-.00007	-.00003	
1001	-.02466	-.04598	-.00321	.00017	-.00009	.00009	
1002	-.03000	-.05516	-.02025	.00017	-.00004	-.00000	
1003	-.03001	-.04597	-.03939	.00013	-.00008	-.00006	
1004	-.03000	-.05503	.02017	.00014	-.00015	-.00000	
1005	-.02879	-.05326	-.00430	.00010	-.00004	-.00001	
1006	-.02388	-.05050	.03797	.00015	-.00010	-.00004	
1007	-.02378	-.04458	-.00358	.00018	-.00009	.00008	
1008	-.03108	-.04482	-.04348	.00013	-.00008	-.00006	
1009	-.02554	-.05092	.04247	.00015	-.00011	-.00003	
1010	.05177	.00111	-.00088	-.00001	.00023	.00001	OBLIQUE
1010	-.02485	-.04544	-.00068	.00020	-.00011	.00005	GLOBAL

STRAN - JOINT DEFLECTIONS AND ROTATIONS

LOAD CONDITION NO. 4

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	DEFLECTION IN INCHES Y	DEFLECTION IN INCHES Z	ROTATION IN RADIANS X	ROTATION IN RADIANS Y	ROTATION IN RADIANS Z	REMARKS
1011	-.02459	.04116	-.01135	-.00018	-.00011	-.00001	OBLIQUE
1011	-.02446	-.04254	-.00443	.00018	-.00010	-.00003	GLOBAL
1012	-.02373	-.04287	.01060	.00019	-.00011	-.00001	OBLIQUE
1012	-.02373	-.04403	.00340	.00019	-.00011	-.00003	GLOBAL

STRAN - JOINT DEFLECTIONS AND ROTATIONS

LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	DEFLECTION IN INCHES Y	DEFLECTION IN INCHES Z	ROTATION IN RADIANS X	ROTATION IN RADIANS Y	ROTATION IN RADIANS Z	REMARKS
101	.37658	.69260	-.00204	.00005	-.00002	.00002	
102	.37658	.67771	-.00579	.00005	-.00002	.00009	
103	.37658	.66277	-.00925	.00005	-.00002	.00011	
104	.36571	.66515	.00359	.00005	-.00002	.00009	
105	.36569	.67023	.00003	.00005	-.00002	.00007	
106	.35079	.67767	.00925	.00005	-.00002	.00014	
201	.36041	.70150	-.00209	.00005	-.00002	.00002	
202	.36018	.66647	-.00575	.00005	-.00002	.00009	
203	.37995	.67173	-.00925	.00005	-.00002	.00011	
204	.36724	.69395	.00347	.00005	-.00002	.00009	
205	.36722	.67895	.00010	.00005	-.00002	.00007	
206	.35407	.66639	.00925	.00005	-.00002	.00015	
301	.36356	.70984	-.00211	.00005	-.00001	.00000	
303	.36452	.67841	-.00927	.00001	-.00004	.00012	
306	.35838	.69475	.00926	.00004	-.00004	.00016	
401	.36609	.71863	-.00202	-.00002	-.00004	-.00006	
403	.36874	.67335	-.00927	.00002	.00007	.00015	
406	.36799	.69497	.00933	-.00007	.00003	.00021	
501	.36892	.71710	-.00155	-.00002	-.00005	-.00006	
502	.36772	.69551	-.00640	.00005	-.00003	.00013	
503	.36569	.67332	-.00684	.00002	.00007	.00015	
504	.37472	.70334	.00893	.00005	.00003	.00009	
505	.37281	.68429	.00503	.00008	-.00004	.00007	
506	.36442	.69129	.00661	-.00007	.00003	.00021	
507	.36762	.71566	-.00009	-.00002	-.00005	-.00006	
508	.36850	.66937	-.00527	.00002	.00007	.00015	
509	.35826	.69163	.00437	-.00007	.00003	.00021	
510	.36868	.71698	-.00164	-.00003	-.00004	-.00006	
511	.36552	.67300	-.01109	.00002	.00007	.00014	
512	.36434	.69049	.01100	-.00008	.00004	.00020	
513	.36945	.71801	.00065	.00008	-.00013	.00005	
514	.36804	.67009	.00363	-.00001	.00026	.00010	
601	.39190	.71487	-.00059	-.00003	-.00004	-.00007	
603	.36204	.67375	-.00230	.00002	.00008	.00017	
606	.35927	.68613	.00108	-.00009	.00004	.00021	
611	.34922	.71517	.00571	-.00004	-.00004	-.00010	
612	.40108	.96788	-.01914	.00114	.00001	.00003	
613	.40277	.67404	.00131	.00001	.00000	.00060	
621	.39309	.71008	.00031	-.00008	-.00000	-.00010	
622	.39364	.74605	-.02027	-.00006	.00004	.00006	
623	.37782	.67225	.00244	-.00002	.00009	.00019	
624	.42345	.73020	-.00500	.00002	.00003	.00015	
625	.37518	.68530	.01926	-.00004	-.00005	.00007	
626	.35351	.67916	-.00474	-.00012	.00005	.00021	
651	.39062	.70134	.00105	-.00013	.00005	-.00013	
653	.37266	.66679	.00760	-.00008	.00010	.00022	
656	.34655	.66981	-.01095	-.00016	.00006	.00022	
661	.36908	.70166	.00446	-.00006	.00009	-.00029	

STRAN - JOINT DEFLECTIONS AND ROTATIONS

LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	DEFLECTION IN INCHES Y	DEFLECTION IN INCHES Z	ROTATION IN RADIANS X	ROTATION IN RADIANS Y	ROTATION IN RADIANS Z	REMARKS
602	.39173	1.12496	-.01918	.00091	.00006	.00003	
603	.39404	.66710	.00288	.00011	.00016	.00072	
701	.36362	.68659	.00166	-.00016	.00009	-.00018	
702	.37529	.66416	-.00584	-.00008	-.00002	.00002	
703	.36612	.65449	.01460	-.00014	.00011	.00025	
704	.36125	.67211	-.00355	-.00001	.00001	.00009	
705	.35914	.65256	-.01147	-.00002	-.00002	.00013	
706	.33854	.65637	-.01864	-.00018	.00005	.00021	
707	.36151	.68273	.00160	-.00016	.00009	-.00018	
708	.37040	.64859	.01974	-.00014	.00011	.00025	
709	.33234	.65723	-.02404	-.00018	.00005	.00022	
710	.36373	.68639	-.00010	-.00018	.00009	-.00008	
711	.36119	.65148	-.01879	-.00017	.00011	.00015	
712	.33658	.65019	.01770	-.00020	.00006	.00018	
801	.32067	.58614	-.00292	-.00035	.00021	-.00032	
802	.32035	.56490	.00798	-.00030	.00007	.00009	
803	.31696	.54090	.06488	-.00042	.00024	.00021	
804	.30826	.57219	-.03782	-.00012	.00012	.00003	
805	.30638	.55448	-.02456	-.00013	.00004	.00006	
806	.30242	.56135	-.06638	-.00040	.00011	.00030	
807	.31714	.57959	-.00303	-.00035	.00021	-.00032	
808	.32321	.53746	.07738	-.00042	.00024	.00021	
809	.29369	.56322	-.07829	-.00040	.00011	.00030	
810	.32059	.58621	-.00111	-.00038	.00025	-.00012	
811	.30731	.53417	-.01406	-.00044	.00023	.00016	
812	.30237	.54764	.01387	-.00041	.00012	.00017	
901	.21277	.40513	.00213	-.00050	.00027	-.00031	
902	.21704	.38499	.03758	-.00041	.00012	.00009	
903	.22055	.35203	.11664	-.00047	.00031	.00025	
904	.20842	.39017	-.06649	-.00029	.00024	.00000	
905	.20553	.37648	-.02010	-.00023	.00012	.00002	
906	.21968	.38363	-.12241	-.00050	.00025	.00018	
907	.20949	.39949	.00260	-.00050	.00027	-.00031	
908	.22608	.34783	.13168	-.00047	.00031	.00026	
909	.21569	.38627	-.13724	-.00050	.00025	.00018	
910	.21347	.40486	-.00176	-.00050	.00026	-.00013	
911	.20425	.34275	.00221	-.00044	.00027	.00013	
912	.21965	.36370	-.00170	-.00048	.00025	.00016	
1001	.09746	.17617	.00450	-.00060	.00029	-.00025	
1002	.11529	.20054	.07118	-.00062	.00019	.00002	
1003	.11508	.16768	.14863	-.00044	.00028	.00019	
1004	.11075	.20328	-.08539	-.00051	.00047	.00001	
1005	.10789	.19298	.00942	-.00033	.00023	.00002	
1006	.08654	.18739	-.15666	-.00053	.00036	.00015	
1007	.09526	.17290	.00595	-.00060	.00029	-.00022	
1008	.11854	.16465	.16294	-.00044	.00028	.00017	
1009	.08580	.18906	-.17260	-.00053	.00036	.00014	
1010	-.20008	-.00305	.00090	.00003	-.00085	-.00003	OBLIQUE
1010	.09735	.17481	.00058	-.00073	.00039	-.00016	GLOBAL

STRAN - JOINT DEFLECTIONS AND ROTATIONS

LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	Y	Z	ROTATION IN RADIANS X	Y	Z	REMARKS
1011	.08703	-.15442	.04505	.00064	.00036	.00007	OBLIQUE
1011	.09475	.15527	.01904	-.00062	.00038	.00013	GLOBAL
1012	.08809	.15696	-.04662	-.00066	.00040	.00009	OBLIQUE
1012	.08809	.16249	-.02015	-.00066	.00038	.00015	GLOBAL

S T R A N - J O I N T   D E F L E C T I O N S   A N D   R O T A T I O N S

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	DEFLECTION IN INCHES Y	DEFLECTION IN INCHES Z	ROTATION IN RADIANS X	ROTATION IN RADIANS Y	ROTATION IN RADIANS Z	REMARKS
101	-.13025	-.23069	-.00179	-.00002	.00001	.00001	
102	-.13026	-.22832	.00046	-.00002	.00001	-.00002	
103	-.13026	-.22592	.00266	-.00002	.00001	-.00003	
104	-.12821	-.22950	-.00434	-.00002	.00001	-.00001	
105	-.12820	-.22712	-.00212	-.00002	.00001	-.00001	
106	-.12814	-.22830	-.00669	-.00002	.00001	-.00003	
201	-.13257	-.23506	-.00179	-.00002	.00001	.00001	
202	-.13252	-.23204	.00049	-.00002	.00001	-.00002	
203	-.13246	-.23028	.00266	-.00002	.00001	-.00003	
204	-.13044	-.23384	-.00431	-.00002	.00001	-.00002	
205	-.13045	-.23142	-.00213	-.00002	.00001	-.00001	
206	-.12830	-.23262	-.00669	-.00002	.00001	-.00003	
301	-.13463	-.23934	-.00178	-.00002	.00001	.00001	
303	-.13492	-.23430	.00267	-.00002	.00002	-.00003	
306	-.13062	-.23701	-.00669	-.00003	.00001	-.00003	
401	-.13795	-.24786	-.00180	-.00002	.00003	.00004	
403	-.13877	-.24037	.00266	-.00003	-.00001	-.00004	
406	-.13469	-.24425	-.00690	-.00001	.00000	-.00005	
501	-.13937	-.24886	-.00197	-.00002	.00003	.00004	
502	-.13886	-.24513	.00197	-.00003	.00001	-.00003	
503	-.13830	-.24164	.00197	-.00003	-.00002	-.00004	
504	-.13643	-.24658	-.00409	-.00003	.00001	-.00002	
505	-.13621	-.24330	-.00260	-.00003	.00000	-.00000	
506	-.13433	-.24472	-.00631	-.00001	.00000	-.00005	
507	-.13866	-.24779	-.00240	-.00002	.00003	.00004	
508	-.13901	-.24049	.00200	-.00003	-.00002	-.00004	
509	-.13291	-.24468	-.00651	-.00001	.00000	-.00005	
510	-.13938	-.24868	-.00186	-.00002	.00003	.00003	
511	-.13814	-.24159	.00353	-.00003	-.00001	-.00004	
512	-.13431	-.24448	-.00770	-.00001	-.00000	-.00005	
513	-.13867	-.24766	-.00274	-.00002	.00004	.00004	
514	-.13908	-.24035	-.00151	.00002	-.00010	-.00004	
601	-.14138	-.25008	-.00229	-.00002	.00003	.00004	
603	-.13757	-.24329	.00041	-.00003	-.00002	-.00005	
606	-.13380	-.24539	-.00488	-.00000	-.00000	-.00005	
611	-.14007	-.25011	-.00322	-.00000	-.00002	.00003	
612	-.14018	-.27284	-.04627	-.00062	.00000	-.00001	
613	-.14030	-.24331	-.00150	.00002	.00004	-.00006	
621	-.14303	-.25084	-.00260	-.00001	.00002	.00006	
622	-.13887	-.25968	-.00072	-.00002	-.00002	.00000	
623	-.13683	-.24448	-.00117	-.00002	-.00002	-.00005	
624	-.13333	-.25347	-.00898	-.00002	.00004	-.00004	
625	-.13922	-.25037	-.01115	-.00002	.00003	-.00001	
626	-.13507	-.24557	-.00336	.00001	-.00000	-.00005	
651	-.14364	-.25087	-.00282	-.00000	.00000	.00007	
653	-.13626	-.24484	-.00280	-.00000	-.00001	-.00006	
656	-.13203	-.24473	-.00168	.00002	-.00001	-.00005	
661	-.14004	-.25095	-.00327	-.00000	-.00007	.00014	

STRAN - JOINT DEFLECTIONS AND ROTATIONS

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	DEFLECTION IN INCHES Y	DEFLECTION IN INCHES Z	ROTATION IN RADIANS X	ROTATION IN RADIANS Y	ROTATION IN RADIANS Z	REMARKS
602	-.14082	-.36805	-.04635	-.00062	.00001	-.00000	
603	-.14157	-.24492	-.00140	-.00004	.00005	-.00018	
701	-.14204	-.25017	-.00288	-.00000	-.00001	.00008	
702	-.13941	-.24463	-.05992	-.00019	.00001	-.00000	
703	-.13597	-.24361	-.00466	.00001	-.00001	-.00008	
704	-.13641	-.24625	-.07018	.00007	-.00013	-.00003	
705	-.13501	-.24190	-.06815	.00007	.00014	-.00002	
706	-.13066	-.24229	.00052	.00004	-.00001	-.00005	
707	-.14145	-.24800	-.00244	-.00000	-.00001	.00008	
708	-.13715	-.24187	-.00526	.00001	-.00001	-.00007	
709	-.12903	-.24248	.00171	.00004	-.00001	-.00006	
710	-.14272	-.25007	-.00192	.00002	-.00002	.00008	
711	-.13411	-.24267	.00775	.00004	-.00002	-.00004	
712	-.13069	-.24029	-.01127	.00004	-.00001	-.00004	
801	-.12443	-.22547	-.00144	.00010	-.00007	.00016	
802	-.12407	-.21815	-.04457	-.00003	-.00002	-.00003	
803	-.12340	-.21017	-.02332	.00015	-.00007	-.00008	
804	-.12135	-.21972	-.04211	.00007	-.00011	-.00001	
805	-.12066	-.21551	-.03471	.00008	.00010	-.00001	
806	-.12342	-.21661	.01720	.00014	-.00002	-.00011	
807	-.12248	-.22192	-.00101	.00010	-.00007	.00015	
808	-.12467	-.20881	-.02717	.00013	-.00007	-.00008	
809	-.12022	-.21727	.02149	.00014	-.00002	-.00011	
810	-.12449	-.22539	-.00103	.00012	-.00008	.00005	
811	-.11867	-.20756	.00728	.00015	-.00008	-.00005	
812	-.12339	-.21180	-.01073	.00013	-.00004	-.00004	
901	-.08705	-.16076	-.00340	.00018	-.00010	.00017	
902	-.08777	-.15392	-.02340	.00014	-.00004	-.00003	
903	-.08814	-.14334	-.04384	.00017	-.00011	-.00012	
904	-.08849	-.15467	.01574	.00010	-.00010	-.00001	
905	-.08540	-.15128	-.00341	.00007	-.00004	.00001	
906	-.09314	-.15240	.03935	.00019	-.00010	-.00008	
907	-.08498	-.15720	-.00359	.00018	-.00010	.00017	
908	-.09055	-.14119	-.04935	.00017	-.00011	-.00012	
909	-.09124	-.15342	.04501	.00019	-.00010	-.00008	
910	-.08746	-.16056	-.00073	.00019	-.00010	.00006	
911	-.08170	-.13967	.00155	.00017	-.00010	-.00004	
912	-.09313	-.14522	-.00442	.00018	-.00010	-.00004	
1001	-.03948	.06899	-.00414	.00026	-.00013	.00015	
1002	-.04771	[illegible]8327	-.02899	.00028	-.00008	-.00000	
1003	-.04738	-.06937	-.05668	.00020	-.00012	-.00009	
1004	-.04824	-.08294	.02850	.00022	-.00024	-.00000	
1005	-.04622	-.07997	-.00702	.00011	-.00010	-.00000	
1006	-.03817	-.07584	.05290	.00022	-.00016	-.00007	
1007	-.03796	-.06655	-.00460	.00026	-.00013	.00013	
1008	-.04492	-.06772	-.06288	.00020	-.00012	-.00009	
1009	-.03666	-.07643	.05953	.00022	-.00016	-.00007	
1010	.07869	-.00030	-.00112	-.00001	.00035	.00002	OBLIQUE
1010	-.03958	-.06825	-.00115	.00030	-.00017	.00008	GLOBAL

S T R A N - J O I N T D E F L E C T I O N S A N D R O T A T I O N S

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	DEFLECTION IN INCHES Y	DEFLECTION IN INCHES Z	ROTATION IN RADIANS X	ROTATION IN RADIANS Y	ROTATION IN RADIANS Z	REMARKS
1011	-.03607	.06430	-.01637	-.00027	-.00016	-.00002	OBLIQUE
1011	-.03920	-.06432	-.00557	.00027	-.00016	-.00004	GLOBAL
1012	-.03792	-.06503	.01080	.00028	-.00018	-.00002	OBLIQUE
1012	-.03792	-.06658	.00390	.00028	-.00017	-.00005	GLOBAL

S T R A N - J O I N T D E F L E C T I O N S A N D R O T A T I O N S

LOAD CONDITION NO. 7

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	Y	Z	ROTATION IN RADIANS X	Y	Z	REMARKS
101	.94814	1.80209	-.00673	.00015	-.00006	-.00012	
102	.94812	1.77621	-.01790	.00015	-.00006	.00017	
103	.94808	1.75014	-.02793	.00015	-.00005	.00029	
104	.92574	1.78914	.01025	.00015	-.00006	.00017	
105	.92566	1.76312	-.00067	.00015	-.00006	.00009	
106	.90317	1.77607	.02676	.00014	-.00006	.00031	
201	.95945	1.82866	-.00673	.00014	-.00006	-.00013	
202	.95862	1.80232	-.01731	.00014	-.00006	.00017	
203	.95777	1.77665	-.02793	.00015	-.00006	.00030	
204	.93637	1.81518	.00965	.00014	-.00006	.00017	
205	.93627	1.78929	-.00073	.00015	-.00006	.00009	
206	.91416	1.80221	.02675	.00015	-.00006	.00032	
301	.96978	1.85138	-.00682	.00010	-.00006	-.00018	
303	.97268	1.79311	-.02807	-.00002	-.00012	.00053	
306	.92682	1.82336	.02685	.00004	-.00010	.00034	
401	.97507	1.82041	-.00632	-.00018	-.00004	-.00016	
403	.98023	1.71986	-.02817	-.00014	.00023	.00044	
406	.94119	1.76491	.02732	-.00028	.00013	.00046	
501	.97701	1.81004	-.00505	-.00016	-.00006	-.00016	
502	.97442	1.76054	-.02301	.00002	-.00011	.00029	
503	.97041	1.70996	-.02090	-.00011	.00023	.00043	
504	.94681	1.77719	.01249	.00016	.00012	.00018	
505	.94242	1.73617	.00341	.00028	-.00012	.00011	
506	.92976	1.75074	.01973	-.00027	.00013	.00047	
507	.97433	1.80674	-.00115	-.00016	-.00006	-.00015	
508	.97850	1.69930	-.01326	-.00011	.00023	.00044	
509	.91641	1.75211	.01159	-.00027	.00013	.00046	
510	.97691	1.80992	-.00528	-.00017	-.00005	-.00015	
511	.96421	1.70946	-.03154	-.00010	.00022	.00042	
512	.92962	1.74892	.03073	-.00028	.00014	.00045	
513	.97751	1.81092	.00113	.00006	-.00024	.00008	
514	.97716	1.69935	.00754	-.00017	.00065	.00033	
601	.98064	1.79757	-.00252	-.00016	-.00006	-.00018	
603	.95835	1.70076	-.00858	-.00006	.00022	.00046	
606	.91406	1.73282	.00520	-.00029	.00015	.00047	
611	.99802	1.79821	.01557	-.00014	-.00008	-.00016	
612	1.00223	2.33812	-.04835	.00251	.00003	.00009	
613	1.00609	1.70139	.00517	-.00006	.00006	.00130	
621	.98093	1.78171	-.00022	-.00023	.00002	-.00024	
622	.98456	1.86418	-.04512	-.00020	.00009	.00015	
623	.94696	1.69094	.00370	-.00011	.00022	.00051	
624	1.05212	1.82771	-.00838	.00002	.00014	.00034	
625	.93378	1.71822	.01994	-.00008	-.00015	.00015	
626	.89723	1.71265	-.00904	-.00033	.00016	.00048	
651	.97415	1.75874	.00166	-.00033	.00013	-.00031	
653	.93509	1.67504	.01652	-.00021	.00024	.00056	
656	.87925	1.66858	-.02517	-.00039	.00017	.00049	
661	.97223	1.75945	.01230	-.00019	.00021	-.00058	

S T R A N - J O I N T D E F L E C T I O N S A N D R O T A T I O N S

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	DEFLECTION IN INCHES Y	DEFLECTION IN INCHES Z	ROTATION IN RADIANS X	ROTATION IN RADIANS Y	ROTATION IN RADIANS Z	REMARKS
662	.97829	2.68420	-.04845	.00201	.00016	.00007	
663	.96557	1.67572	.00910	.00018	.00037	.00158	
701	.95672	1.72268	.00331	-.00039	.00021	-.00043	
702	.93925	1.67206	-.01111	-.00021	-.00003	.00006	
703	.91983	1.64510	.03340	-.00034	.00026	.00063	
704	.90701	1.69050	-.01407	-.00003	.00005	.00019	
705	.90218	1.64545	-.02568	-.00003	-.00003	.00028	
706	.85858	1.65587	-.04405	-.00043	.00015	.00049	
707	.95126	1.71374	.00379	-.00039	.00021	-.00042	
708	.93043	1.63020	.04535	-.00034	.00026	.00063	
709	.84470	1.55792	-.05707	-.00043	.00015	.00049	
710	.85715	1.72253	-.00144	-.00044	.00022	-.00020	
711	.90763	1.65766	-.04901	-.00041	.00027	.00041	
712	.85868	1.64048	.04627	-.00048	.00017	.00040	
801	.81409	1.48663	-.00670	-.00080	.00047	-.00079	
802	.81290	1.43833	.03160	-.00066	.00018	.00018	
803	.80959	1.38149	.15353	-.00097	.00055	.00054	
804	.78482	1.45496	-.06187	-.00052	.00031	.00006	
805	.77991	1.41322	-.04561	-.00033	.00009	.00017	
806	.76970	1.42912	-.15836	-.00094	.00025	.00073	
807	.80453	1.47014	-.00695	-.00081	.00047	-.00079	
808	.82016	1.37216	.18251	-.00097	.00055	.00054	
809	.74892	1.43350	-.18656	-.00094	.00025	.00073	
810	.81347	1.40694	-.00311	-.00089	.00056	-.00027	
811	.76098	1.30494	-.03996	-.00102	.00056	.00042	
812	.70957	1.39542	.03864	-.00097	.00029	.00037	
901	.56516	1.06425	.00528	-.00118	.00064	-.00080	
902	.57150	1.01454	.10465	-.00099	.00024	.00020	
903	.57794	.93562	.27718	-.00113	.00072	.00066	
904	.55035	1.02667	-.16116	-.00070	.00059	.00002	
905	.54496	.99255	-.03220	-.00054	.00033	.00006	
906	.57458	1.00896	-.29240	-.00118	.00059	.00045	
907	.55432	1.04904	.00634	-.00118	.00064	-.00081	
908	.59206	.92437	.31279	-.00113	.00072	.00067	
909	.56369	1.01536	-.32780	-.00118	.00059	.00045	
910	.56494	1.06364	-.00442	-.00115	.00060	-.00030	
911	.53807	.91318	-.00357	-.00103	.00063	.00035	
912	.57456	.96024	.00392	-.00110	.00060	.00036	
1001	.26421	.51193	.01089	-.00145	.00070	-.00064	
1002	.32749	.56968	.17129	-.00158	.00046	.00006	
1003	.32644	.48557	.35501	-.00109	.00068	.00048	
1004	.31509	.57713	-.20431	-.00126	.00118	.00003	
1005	.30717	.54891	.02037	-.00078	.00055	.00006	
1006	.25678	.53564	-.37514	-.00127	.00087	.00039	
1007	.27828	.50295	.01429	-.00146	.00071	-.00058	
1008	.33478	.47741	.38949	-.00110	.00068	.00045	
1009	.24964	.53954	-.41350	-.00127	.00088	.00036	
1010	-.50247	-.00833	.00206	.00007	-.00217	-.00006	OBLIQUE
1010	.26404	.50859	.00067	-.00188	.00101	-.00042	GLOBAL

STRAN - JOINT DEFLECTIONS AND ROTATIONS

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	DEFLECTION IN INCHES Y	DEFLECTION IN INCHES Z	ROTATION IN RADIANS X	ROTATION IN RADIANS Y	ROTATION IN RADIANS Z	REMARKS
1011	.25567	-.45469	.11231	.00165	.00094	.00019	OBLIQUE
1011	.27636	.45502	.03600	-.00160	.00098	.00034	GLOBAL
1012	.25564	.46135	-.11680	-.00172	.00103	.00019	OBLIQUE
1012	.25564	.47428	-.03927	-.00172	.00098	.00036	GLOBAL

STRAN - JOINT DEFLECTIONS AND ROTATIONS

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LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT	/-----DEFLECTION IN INCHES-----/			/-----ROTATION IN RADIANS-----/			/---REMARKS---/
NUMBER	X	Y	Z	X	Y	Z	
101	-.16388	-.29253	-.00318	-.00003	.00002	.00002	
102	-.16369	-.29061	-.00007	-.00003	.00002	-.00001	
103	-.16369	-.28926	.00299	-.00003	.00002	-.00003	
104	-.16257	-.29157	-.00680	-.00003	.00002	-.00001	
105	-.16256	-.29003	-.00372	-.00003	.00002	-.00000	
106	-.16124	-.29079	-.01042	-.00003	.00002	-.00003	
201	-.16709	-.29848	-.00318	-.00003	.00002	.00002	
202	-.16702	-.29691	-.00003	-.00003	.00002	-.00001	
203	-.16695	-.29540	.00299	-.00003	.00002	-.00003	
204	-.16568	-.29768	-.00677	-.00003	.00002	-.00001	
205	-.16567	-.29611	-.00372	-.00003	.00002	-.00000	
206	-.16427	-.29689	-.01042	-.00003	.00002	-.00003	
301	-.16998	-.30452	-.00317	-.00003	.00001	.00003	
303	-.17035	-.30113	.00300	-.00003	.00002	-.00003	
306	-.16747	-.30304	-.01042	-.00004	.00002	-.00003	
401	-.17474	-.31614	-.00319	-.00003	.00004	.00005	
403	-.17572	-.30991	.00300	-.00004	-.00002	-.00004	
406	-.17295	-.31313	-.01042	-.00001	.00000	-.00005	
501	-.17647	-.31743	-.00342	-.00003	.00004	.00006	
502	-.17583	-.31443	.00182	-.00004	.00002	-.00003	
503	-.17512	-.31157	.00210	-.00004	-.00002	-.00005	
504	-.17411	-.31546	-.00642	-.00004	.00002	-.00002	
505	-.17381	-.31289	-.00416	-.00004	.00001	.00001	
506	-.17267	-.31396	-.00974	-.00001	.00000	-.00005	
507	-.17542	-.31560	-.00394	-.00003	.00004	.00006	
508	-.17597	-.31023	.00215	-.00004	-.00002	-.00005	
509	-.17115	-.31389	-.01013	-.00001	.00000	-.00005	
510	-.17649	-.31745	-.00324	-.00003	.00004	.00005	
511	-.17493	-.31151	.00411	-.00004	-.00001	-.00004	
512	-.17264	-.31365	-.01146	-.00001	.00000	-.00005	
513	-.17559	-.31556	-.00445	-.00003	.00005	.00006	
514	-.17604	-.31006	-.00236	.00003	-.00013	-.00005	
601	-.17895	-.31896	-.00387	-.00003	.00004	.00007	
603	-.17418	-.31370	.00009	-.00003	-.00002	-.00005	
606	-.17224	-.31518	-.00803	-.00001	.00000	-.00005	
611	-.17671	-.31899	-.00557	.00001	-.00004	.00004	
612	-.17578	-.34569	-.07950	-.00070	.00000	-.00001	
613	-.17667	-.31373	-.00301	.00003	.00007	-.00006	
621	-.18100	-.32000	-.00428	-.00002	.00003	.00008	
622	-.17516	-.33198	-.00296	-.00003	-.00003	.00000	
623	-.17325	-.31532	-.00195	-.00002	-.00002	-.00007	
624	-.19494	-.32286	-.01448	-.00002	.00005	-.00004	
625	-.17632	-.32205	-.01931	-.00003	.00004	-.00001	
626	-.17158	-.31582	-.00622	.00000	-.00000	-.00006	
651	-.18160	-.32035	-.00458	-.00001	.00001	.00010	
653	-.17265	-.31605	-.00401	-.00001	-.00002	-.00008	
656	-.17055	-.31518	-.00821	.00002	-.00001	-.00006	
661	-.17679	-.32043	-.00563	.00001	-.00011	.00017	

STRAN - JOINT DEFLECTIONS AND ROTATIONS

LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	DEFLECTION IN INCHES Y	DEFLECTION IN INCHES Z	ROTATION IN RADIANS X	ROTATION IN RADIANS Y	ROTATION IN RADIANS Z	REMARKS
662	-.17766	-.45392	-.07964	-.00071	.00002	-.00000	
663	-.17657	-.31613	-.00266	-.00005	.00010	-.00020	
701	-.16057	-.32021	-.00464	-.00002	-.00002	.00012	
702	-.17674	-.31514	-.09830	-.00032	.00001	.00000	
703	-.17268	-.31536	-.00656	.00000	-.00001	-.00009	
704	-.17442	-.31630	-.11859	.00011	-.00020	-.00003	
705	-.17371	-.31265	-.10705	.00012	.00025	-.00002	
706	-.16915	-.31249	-.00154	.00005	-.00000	-.00006	
707	-.17668	-.31709	-.00593	-.00002	-.00002	.00012	
708	-.17408	-.31293	-.00678	.00001	-.00001	-.00009	
709	-.16737	-.31272	-.00014	.00005	-.00000	-.00006	
710	-.16075	-.32007	-.00509	.00002	-.00002	.00006	
711	-.17026	-.31390	.00971	.00004	-.00003	-.00005	
712	-.16918	-.31004	-.01612	.00004	-.00000	-.00004	
801	-.15948	-.29233	-.00318	.00011	-.00009	.00023	
802	-.15692	-.28469	-.07489	-.00009	-.00002	-.00004	
803	-.15795	-.27607	-.02985	.00015	-.00008	-.00011	
804	-.15713	-.28574	-.07314	.00011	-.00017	-.00001	
805	-.15618	-.28167	-.06513	.00013	.00015	.00000	
806	-.16158	-.28766	.01918	.00018	-.00002	-.00014	
807	-.15653	-.28696	-.00255	.00011	-.00009	.00023	
808	-.15997	-.27391	-.03431	.00015	-.00008	-.00011	
809	-.15758	-.28345	.02447	.00018	-.00002	-.00014	
810	-.15968	-.29216	-.00184	.00014	-.00009	.00007	
811	-.15210	-.27209	.00965	.00018	-.00009	-.00006	
812	-.16154	-.27662	-.01575	.00016	-.00004	-.00004	
901	-.11436	-.21287	-.00582	.00022	-.00012	.00025	
902	-.11464	-.20517	-.03509	.00013	-.00004	-.00003	
903	-.11443	-.19355	-.05603	.00021	-.00014	-.00018	
904	-.11430	-.20528	-.00600	.00013	-.00014	-.00001	
905	-.11284	-.20240	-.01469	.00009	-.00002	.00001	
906	-.12599	-.20279	.04745	.00024	-.00013	-.00009	
907	-.11118	-.20737	-.00599	.00022	-.00012	.00025	
908	-.11769	-.19009	-.06287	.00021	-.00014	-.00018	
909	-.12164	-.20411	.05463	.00024	-.00013	-.00009	
910	-.11505	-.21255	-.00141	.00024	-.00012	.00008	
911	-.10609	-.18880	.00284	.00021	-.00012	-.00005	
912	-.12400	-.19376	-.00786	.00022	-.00013	-.00005	
1001	-.05299	-.09427	-.00661	.00034	-.00017	.00022	
1002	-.06364	-.11521	-.03844	.00041	-.00009	.00001	
1003	-.06350	-.09668	-.07254	.00027	-.00016	-.00014	
1004	-.06605	-.11376	.03450	.00029	-.00031	-.00001	
1005	-.06266	-.11071	-.01015	.00016	-.00010	-.00000	
1006	-.05282	-.10450	.06496	.00029	-.00021	-.00010	
1007	-.05057	-.09053	-.00744	.00034	-.00017	.00020	
1008	-.06575	-.09406	-.08071	.00027	-.00016	-.00013	
1009	-.05110	-.10504	.07574	.00029	-.00021	-.00009	
1010	.10733	.00020	-.00190	-.00001	.00047	.00003	OBLIQUE
1010	-.05547	-.09318	-.00164	.00040	-.00022	.00010	GLOBAL

S T R A N - J O I N T   D E F L E C T I O N S   A N D   R O T A T I O N S

LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	DEFLECTION IN INCHES X	Y	Z	ROTATION IN RADIANS X	Y	Z	REMARKS
1011	-.05154	.06855	-.02109	-.00036	-.00022	-.00002	OBLIQUE
1011	-.05284	-.09006	-.00624	.00036	-.00021	-.00006	GLOBAL
1012	-.05247	-.09070	.01829	.00058	-.00024	-.00002	OBLIQUE
1012	-.05247	-.09247	.00311	.00058	-.00023	-.00006	GLOBAL

STRAN - REACTION FORCES AND MOMENTS

LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	FORCE IN KIPS F-X	F-Y	F-Z	MOMENT IN IN-KIPS M-X	M-Y	M-Z	REMARKS
1010	7.4078	-.0436	-1.2325	-55.3892	-224.3465	5.5698	OBLIQUE
1010	-3.5684	-6.4937	-1.2229	-174.6816	141.6264	-31.4066	GLOBAL
1011	-3.5365	5.9908	-38.5490	229.0070	142.7947	-8.8891	OBLIQUE
1011	-6.6364	-9.1914	-37.0386	-237.6038	127.0679	14.7189	GLOBAL
1012	-2.9238	-5.9572	39.4491	-196.7521	27.9364	-9.7974	OBLIQUE
1012	-2.9238	-12.3693	37.9305	-196.7521	29.1680	-5.0654	GLOBAL
TOTAL	-15.3266	-28.0543	-.3310	-611.2375	298.0624	-21.7532	

STRAN - REACTION FORCES AND MOMENTS

LOAD CONDITION NO. 2

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	FORCE IN KIPS F-X	F-Y	F-Z	MOMENT IN IN-KIPS M-X	M-Y	M-Z	REMARKS
1010	-5.5549	.1011	.7570	27.6809	178.3299	-4.1020	OBLIQUE
1010	2.7730	4.6479	.7633	139.0305	-112.3199	25.2856	GLOBAL
1011	2.5955	-4.5590	28.2112	-181.0346	-107.6538	5.1593	OBLIQUE
1011	6.6122	6.6192	27.0771	183.4265	-103.0851	-12.6508	GLOBAL
1012	2.2676	4.4856	-27.9921	157.1762	-26.7315	6.6072	OBLIQUE
1012	2.2676	9.0317	-26.8720	157.1762	-27.4874	2.3144	GLOBAL
TOTAL	11.6529	20.6987	.9685	479.6352	-242.6924	14.9493	

STRAN - REACTION FORCES AND MOMENTS

LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	FORCE IN KIPS F-X	F-Y	F-Z	MOMENT IN IN-KIPS M-X	M-Y	M-Z	REMARKS
1010	22.3472	.0835	-4.1748	-88.2943	-741.4414	12.1606	OBLIQUE
1010	-10.5160	-19.7333	-4.1042	-590.7569	443.3902	-109.9574	GLOBAL
1011	-10.9753	18.3285	-114.3693	748.5698	462.4899	-26.5352	OBLIQUE
1011	-26.4464	-27.9614	-109.7969	-773.5108	417.6712	49.8966	GLOBAL
1012	-6.9525	-18.4469	117.0560	-680.5196	129.3601	-30.9159	OBLIQUE
1012	-8.9525	-37.4626	112.4231	-680.5196	132.6844	-9.2017	GLOBAL
TOTAL	-45.9169	-85.1572	-1.4781	-2044.5933	993.7458	-69.2625	

S T R A N - R E A C T I O N F O R C E S A N D M O M E N T S

LOAD CONDITION NO. 4

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	FORCE IN KIPS F-X	F-Y	F-Z	MOMENT IN IN-KIPS M-X	M-Y	M-Z	REMARKS
1010	-15.4495	-.0044	5.2580	51.4716	568.9125	-10.7799	OBLIQUE
1010	6.4779	13.6112	5.1856	461.6423	-326.2423	82.9417	GLOBAL
1011	7.7450	-13.0842	68.0255	-609.7442	-350.4363	14.2847	OBLIQUE
1011	16.9559	16.7528	64.9467	606.4137	-353.7865	-43.5500	GLOBAL
1012	6.5121	13.3952	-63.5312	585.6641	-148.8055	12.6716	OBLIQUE
1012	6.5121	23.6696	-60.4598	585.6641	-148.8616	-11.9948	GLOBAL
TOTAL	30.4758	56.2437	9.6725	1653.7201	-828.6905	27.3973	

S T R A N - R E A C T I O N   F O R C E S   A N D   M O M E N T S

LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	FORCE IN KIPS F-X	F-Y	F-Z	MOMENT IN IN-KIPS M-X	M-Y	M-Z	REMARKS
1010	47.0697	-.6870	-5.3684	-262.2393	-2131.0307	24.9014	OBLIQUE
1010	-25.3745	-40.8563	-5.4082	-1692.2697	1280.8831	-325.9499	GLOBAL
1011	-22.3432	39.6407	-269.9106	2050.3243	1159.9076	-64.5618	OBLIQUE
1011	-61.1168	-61.1268	-259.7134	-2024.7036	1204.3264	127.0993	GLOBAL
1012	-19.0270	-38.8356	279.2965	-1866.1356	475.4463	-85.4624	OBLIQUE
1012	-19.0270	-84.2778	269.0948	-1866.1356	481.0558	-6.3680	GLOBAL
TOTAL	-103.5183	-186.2609	3.9731	-5588.1089	2966.2653	-205.2166	

S T R A N - R E A C T I O N   F O R C E S   A N D   M O M E N T S

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	F-X (FORCE IN KIPS)	F-Y (FORCE IN KIPS)	F-Z (FORCE IN KIPS)	M-X (MOMENT IN IN-KIPS)	M-Y (MOMENT IN IN-KIPS)	M-Z (MOMENT IN IN-KIPS)	REMARKS
1010	-23.6276	.6705	6.6880	116.4143	928.0081	-17.5239	OBLIQUE
1010	11.4426	20.6765	6.7072	736.7816	-560.2594	135.5537	GLOBAL
1011	11.3604	-20.6627	98.0514	-1027.4579	-531.4817	18.3631	OBLIQUE
1011	25.9255	28.1039	93.3174	970.6210	-625.7568	-69.3051	GLOBAL
1012	10.6264	20.5324	-88.6843	959.6952	-297.9264	19.7530	OBLIQUE
1012	10.6264	34.8499	-84.0950	959.6952	-297.1142	-29.5548	GLOBAL
TOTAL	47.9964	83.6303	15.9296	2667.2978	-1483.1304	36.4938	

STRAN - REACTION FORCES AND MOMENTS

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	FORCE IN KIPS F-X	F-Y	F-Z	MOMENT IN IN-KIPS M-X	M-Y	M-Z	REMARKS
1010	110.5231	-1.4267	-12.3666	-599.7543	-6660.1904	57.4306	OBLIQUE
1010	-54.7599	-96.0057	-12.4329	-5396.0074	3811.1804	-1038.8203	GLOBAL
1011	-53.3914	96.1442	-672.8813	6339.5365	3410.7216	-183.5101	OBLIQUE
1011	-151.2175	-149.0504	-647.9031	-6111.0764	3790.3537	379.9851	GLOBAL
1012	-45.5436	-93.7836	699.7620	-5972.8340	1850.0601	-184.5348	OBLIQUE
1012	-45.5436	-207.6845	674.7809	-5972.8340	1855.2006	122.5000	GLOBAL
TOTAL	-251.5211	-452.7466	14.4449	-17479.9178	9456.7347	-536.3352	

STRAN - REACTION FORCES AND MOMENTS

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

JOINT NUMBER	F-X	F-Y	F-Z	M-X	M-Y	M-Z	REMARKS
	FORCE IN KIPS			MOMENT IN IN-KIPS			
1010	-31.6366	.6049	11.3589	126.4764	1339.4151	-26.4432	OBLIQUE
1010	14.6302	28.2025	11.3037	1083.3647	-774.4912	194.2240	GLOBAL
1011	15.9947	-28.1675	126.3644	-1496.5643	-791.7888	21.5137	OBLIQUE
1011	34.0477	38.1506	120.0104	1426.1042	-903.1788	-109.0128	GLOBAL
1012	14.6996	26.5471	-109.5485	1451.0231	-480.0228	21.1591	OBLIQUE
1012	14.6996	46.1893	-103.3555	1451.0231	-476.9583	-58.1407	GLOBAL
TOTAL	63.5775	112.5424	27.9585	3962.4919	-2154.6283	27.0705	

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 1

PAGE 1
DATE 10/05/76

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
101- 102	W18- 1	0.0	-.00	.02	.24	.00	-.00	.00	-.00	.00	.02	.00	.00	.001
		3.6	-.00	.01	.15	.00	-.00	.00	-.00	.00	.01	.00	.00	.001
		7.3	-.00	.00	.07	.00	-.00	.00	-.00	.00	.01	.00	.00	.000
		10.9	-.00	-.00	-.01	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
		14.5	-.00	-.01	-.10	.00	-.00	.00	-.00	-.00	-.01	.00	.00	.000
101- 104	W18- 1	0.0	-.00	.03	.24	.00	-.00	.00	-.00	.00	.02	.00	.00	.001
		3.6	-.00	.02	.16	.00	-.00	.00	-.00	.00	.01	.00	.00	.001
		7.2	-.00	.01	.07	.00	-.00	.00	-.00	.00	.01	.00	.00	.000
		10.9	-.00	.00	-.02	.00	-.00	.00	-.00	.00	-.00	.00	.00	.000
		14.5	-.00	-.00	-.11	.00	-.00	.00	-.00	-.00	-.01	.00	.00	.000
101- 201	UKL- 1	0.0	-.00	-.03	.04	.00	.01	.48	-.00	-.00		.00	.00	.000
		3.8	-.00	.23	-.16	.00	.01	.48	-.00	-.00		.00	.00	.000
		7.5	-.00	.48	-.35	.00	.01	.48	-.00	-.00		.00	.00	.000
		11.3	-.00	.73	-.55	.00	.01	.48	-.00	-.00		.00	.00	.000
		15.0	-.00	.99	-.74	.00	.01	.48	-.00	-.00		.00	.00	.000
102- 103	W18- 1	0.0	-.00	-.01	-.08	-.00	-.00	.00	-.00	-.00	-.01	.00	.00	.000
		3.6	-.00	-.02	-.03	-.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
		7.3	-.00	-.03	.02	-.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		10.9	-.00	-.04	.08	-.00	-.00	.00	-.00	-.00	.01	.00	.00	.000
		14.5	-.00	-.05	.13	-.00	-.00	.00	-.00	-.00	.01	.00	.00	.001
102- 104	W06- 1	0.0	.00	.00	-.02	-.00	.00	-.00	.00	.00	-.00	.00	.00	.000
		3.6	.00	.00	-.01	-.00	.00	-.00	.00	.00	-.00	.00	.00	.000
		7.2	.00	.00	-.00	-.00	.00	-.00	.00	.00	-.00	.00	.00	.000
		10.9	.00	.00	.01	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		14.5	.00	.00	.01	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
102- 105	W06- 1	0.0	-.00	-.00	.00	.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		3.6	-.00	-.00	-.00	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
		7.2	-.00	-.00	-.01	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
		10.9	-.00	-.00	-.01	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
		14.5	-.00	-.00	-.02	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
103- 105	W18- 1	0.0	.00	-.08	-.09	-.00	.00	-.00	.00	-.00	-.01	.00	.00	.000
		3.6	.00	-.06	-.07	-.00	.00	-.00	.00	-.00	-.01	.00	.00	.000
		7.2	.00	-.03	-.04	-.00	.00	-.00	.00	-.00	-.01	.00	.00	.000
		10.9	.00	-.01	-.02	-.00	.00	-.00	.00	-.00	-.00	.00	.00	.000
		14.5	.00	.01	.00	-.00	.00	-.00	.00	-.00	.00	.00	.00	.000
103- 203	UKL- 1	0.0	.00	.07	.09	.00	-.00	-.22	-.00	.00		.00	.00	.000
		3.8	.00	-.02	.07	.00	-.00	-.22	.00	.00		.00	.00	.000
		7.5	.00	-.12	.05	.00	-.00	-.22	.00	.00		.00	.00	.000
		11.3	.00	-.21	.03	.00	-.00	-.22	.00	.00		.00	.00	.000
		15.0	.00	-.30	.02	.00	-.00	-.22	.00	.00		.00	.00	.000

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS	BENDING STRESS Y	BENDING STRESS Z	Y SHEAR STRESS	Z SHEAR STRESS	COMB. UNITY CHECK
									/-----------------------------	KSI	-----------------------------	-----------/		
104- 105	W06- 1	0.0	.00	-.00	.01	.00	.00	-.00	.00	-.00	.00	.00	.00	.000
		3.6	.00	-.00	-.00	.00	.00	-.00	.00	-.00	-.00	.00	.00	.000
		7.3	.00	-.00	-.01	.00	.00	-.00	.00	-.00	-.00	.00	.00	.000
		10.9	.00	.00	-.02	.00	.00	-.00	.00	.00	-.00	.00	.00	.000
		14.5	.00	.00	-.02	.00	.00	-.00	.00	.00	-.00	.00	.00	.000
104- 106	W18- 1	0.0	-.00	-.00	-.11	-.00	-.00	.00	-.00	-.00	-.01	.00	.00	.000
		3.6	-.00	-.01	-.03	-.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
		7.3	-.00	-.02	.04	-.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		10.9	-.00	-.03	.12	-.00	-.00	.00	-.00	-.00	.01	.00	.00	.001
		14.5	-.00	-.04	.19	-.00	-.00	.00	-.00	-.00	.02	.00	.00	.001
105- 106	W18- 1	0.0	.00	.01	-.04	-.00	.00	.00	.00	.00	-.00	.00	.00	.000
		3.6	.00	.03	.01	-.00	.00	.00	.00	.00	.00	.00	.00	.000
		7.3	.00	.06	.06	-.00	.00	.00	.00	.00	.01	.00	.00	.000
		10.9	.00	.08	.11	-.00	.00	.00	.00	.00	.01	.00	.00	.001
		14.5	.00	.10	.16	-.00	.00	.00	.00	.00	.01	.00	.00	.001
105- 206	DKL- 1	0.0	-.01	.10	.14	.00	.00	-.59	-.00	-.00		.00	.00	.000
		3.8	-.01	.26	.10	.00	.00	-.59	-.00	-.00		.00	.00	.000
		7.5	-.01	.43	.07	.00	.00	-.59	-.00	-.00		.00	.00	.000
		11.3	-.01	.60	.03	.00	.00	-.59	-.00	-.00		.00	.00	.000
		15.0	-.01	.77	-.00	.00	.00	-.59	-.00	-.00		.00	.00	.000
201- 202	W18- 1	0.0	.07	-.03	.25	.00	.00	-.00	.00	-.00	.02	.00	.00	.001
		3.6	.07	-.03	.16	.00	.00	-.00	.00	-.00	.02	.00	.00	.001
		7.3	.07	-.03	.07	.00	.00	-.00	.00	-.00	.01	.00	.00	.001
		10.9	.07	-.03	-.02	.00	.00	-.00	.00	-.00	-.00	.00	.00	.000
		14.5	.07	-.03	-.11	.00	.00	-.00	.00	-.00	-.01	.00	.00	.001
201- 204	W18- 1	0.0	.02	-.10	.26	.00	.00	.00	.00	-.00	.02	.00	.00	.001
		3.5	.02	-.08	.17	.00	.00	.00	.00	-.00	.02	.00	.00	.001
		7.2	.02	-.06	.07	.00	.00	.00	.00	-.00	.01	.00	.00	.000
		10.9	.02	-.04	-.02	.00	.00	.00	.00	-.00	-.00	.00	.00	.000
		14.5	.02	-.01	-.12	.00	.00	.00	.00	-.00	-.01	.00	.00	.001
201- 301	DKL- 1	0.0	.02	.94	-.85	-.06	-.02	2.25	.00	.00		.00	.00	.000
		3.8	.02	.20	1.80	-.06	-.02	2.25	.00	.00		.00	.00	.000
		7.5	.02	-.53	4.45	-.06	-.02	2.25	.00	.01		.00	.00	.000
		11.3	.02	-1.27	7.09	-.06	-.02	2.25	.00	.01		.00	.00	.000
		15.0	.02	-2.01	9.74	-.06	-.02	2.25	.00	.02		.00	.00	.001
201- 303	120- 1	0.0	-.02	-.11	.66	.00	.00	-.09	-.00	-.01		.00	.00	.001
		8.2	-.02	-.04	.53	.00	.00	-.09	-.00	-.01		.00	.00	.000
		16.3	-.02	.04	.40	.00	.00	-.09	-.00	-.01		.00	.00	.000
		24.5	-.02	.12	.28	.00	.00	-.09	-.00	-.01		.00	.00	.000
		32.6	-.02	.19	.15	.00	.00	-.09	-.00	-.00		.00	.00	.000

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
202- 203	W16- 1	0.0	.07	-.03	-.09	-.00	.00	.00	.00	-.00	-.01	.00	.00	.001
		3.6	.07	-.03	-.04	-.00	.00	.00	.00	-.00	-.00	.00	.00	.000
		7.3	.07	-.03	.02	-.00	.00	.00	.00	-.00	.00	.00	.00	.000
		10.9	.07	-.03	.08	-.00	.00	.00	.00	-.00	.01	.00	.00	.001
		14.5	.07	-.03	.14	-.00	.00	.00	.00	-.00	.01	.00	.00	.001
202- 204	W08- 1	0.0	.00	.00	-.02	-.00	.00	.00	.00	.00	-.00	.00	.00	.000
		3.6	.00	.00	-.01	-.00	.00	.00	.00	.00	-.00	.00	.00	.000
		7.2	.00	.00	-.00	-.00	.00	.00	.00	.00	-.00	.00	.00	.000
		10.9	.00	.00	.01	-.00	.00	.00	.00	.00	.00	.00	.00	.000
		14.5	.00	.00	.01	-.00	.00	.00	.00	.00	.00	.00	.00	.000
202- 205	W08- 1	0.0	-.00	-.00	.00	.00	-.00	.00	-.00	-.00	.00	.08	.00	.000
		3.6	-.00	-.00	-.00	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
		7.2	-.00	-.00	-.01	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
		10.9	-.00	-.00	-.02	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
		14.5	-.00	-.00	-.02	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
203- 205	W16- 1	0.0	-.06	-.10	-.10	-.00	.00	.00	-.00	-.00	-.01	.00	.00	.001
		3.6	-.06	-.07	-.07	-.00	.00	.00	-.00	-.00	-.01	.00	.00	.001
		7.2	-.06	-.04	-.04	-.00	.00	.00	-.00	-.00	-.00	.00	.00	.000
		10.9	-.06	-.00	-.02	-.00	.00	.00	-.00	-.00	-.00	.00	.00	.000
		14.5	-.06	.03	.01	-.00	.00	.00	-.00	.00	.00	.00	.00	.000
203- 303	DKL- 1	0.0	.00	-.51	.41	.04	.06	-1.17	.00	.00		.00	.00	.000
		3.8	.00	2.31	-1.28	.04	.06	-1.17	.00	.00		.00	.00	.000
		7.5	.00	5.14	-2.96	.04	.06	-1.17	.00	.01		.00	.00	.000
		11.3	.00	7.97	-4.65	.04	.06	-1.17	.00	.01		.00	.00	.001
		15.0	.00	10.79	-6.34	.04	.06	-1.17	.00	.02		.00	.00	.001
203- 306	120- 1	0.0	-.01	.10	-.82	-.00	-.00	-.06	-.00	-.01		.00	.00	.001
		8.2	-.01	.02	-.37	-.00	-.00	-.06	-.00	-.01		.00	.00	.000
		16.3	-.01	-.06	.06	-.00	-.00	-.06	-.00	-.00		.00	.00	.000
		24.5	-.01	-.14	.53	-.00	-.00	-.06	-.00	-.01		.00	.00	.000
		32.6	-.01	-.22	.98	-.00	-.00	-.06	-.00	-.02		.00	.00	.001
204- 205	W08- 1	0.0	.00	-.00	.01	.00	.00	-.00	.00	-.00	.00	.00	.00	.000
		3.6	.00	-.00	-.00	.00	.00	-.00	.00	-.00	-.00	.00	.00	.000
		7.3	.00	-.00	-.01	.00	.00	-.00	.00	-.00	-.00	.00	.00	.000
		10.9	.00	.00	-.02	.00	.00	-.00	.00	.00	-.00	.00	.00	.000
		14.5	.00	.00	-.02	.00	.00	-.00	.00	.00	-.00	.00	.00	.000
204- 206	W16- 1	0.0	.02	-.01	-.11	-.00	.00	.00	.00	-.00	-.01	.00	.00	.001
		3.6	.02	.01	-.03	-.00	.00	.00	.00	.00	-.00	.00	.00	.000
		7.3	.02	.03	.04	-.00	.00	.00	.00	.00	.00	.00	.00	.000
		10.9	.02	.05	.12	-.00	.00	.00	.00	.00	.01	.00	.00	.001
		14.5	.02	.07	.20	-.00	.00	.00	.00	.00	.02	.00	.00	.001

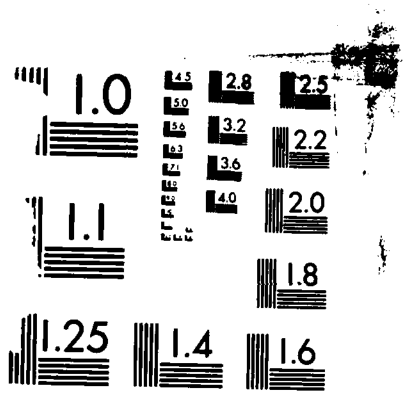
STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	BENDING STRESS Z ---KSI---	Y SHEAR STRESS	Z SHEAR STRESS ------/	COMB. UNITY CHECK
205- 206	W18- 1	0.0	-.07	.03	-.03	-.00	.00	-.00	-.00	.00	-.00	.00	.00	.000
		3.6	-.07	.06	.02	-.00	.00	-.00	-.00	.00	.00	.00	.00	.000
		7.3	-.07	.10	.06	-.00	.00	-.00	-.00	.00	.01	.00	.00	.001
		10.9	-.07	.13	.11	-.00	.00	-.00	-.00	.00	.01	.00	.00	.001
		14.5	-.07	.17	.16	-.00	.00	-.00	-.00	.00	.02	.00	.00	.001
206- 301	120- 1	0.0	-.01	-.06	-.08	.00	.00	.16	-.00	-.00		.00	.00	.000
		8.2	-.01	-.01	-.28	.00	.00	.16	-.00	-.00		.00	.00	.000
		16.3	-.01	.04	-.47	.00	.00	.16	-.00	-.01		.00	.00	.000
		24.5	-.01	.09	-.67	.00	.00	.16	-.00	-.01		.00	.00	.001
		32.6	-.01	.14	-.87	.00	.00	.16	-.00	-.02		.00	.00	.001
206- 306	DKL- 1	0.0	-.00	.97	.17	.04	-.04	-1.09	-.00	-.00		.00	.00	.000
		3.8	-.00	-.93	-1.64	.04	-.04	-1.09	-.00	-.00		.00	.00	.000
		7.5	-.00	-2.84	-3.45	.04	-.04	-1.09	-.00	-.01		.00	.00	.000
		11.3	-.00	-4.74	-5.25	.04	-.04	-1.09	-.00	-.01		.00	.00	.000
		15.0	-.00	-6.65	-7.06	.04	-.04	-1.09	-.00	-.02		.00	.00	.001
301- 303	123- 1	0.0	-.21	.21	1.15	.00	-.00	.08	-.01	-.02		.00	.00	.002
		7.3	-.21	.17	.83	.00	-.00	.08	-.01	-.02		.00	.00	.001
		14.5	-.21	.13	.52	.00	-.00	.08	-.01	-.01		.00	.00	.001
		21.7	-.21	.09	.20	.00	-.00	.08	-.01	-.00		.00	.00	.001
		29.0	-.21	.05	-.12	.00	-.00	.08	-.01	-.00		.00	.00	.001
301- 306	123- 1	0.0	-.02	.19	.87	.00	-.00	-.11	-.00	-.02		.00	.00	.001
		7.2	-.02	.11	.73	.00	-.00	-.11	-.00	-.01		.00	.00	.001
		14.5	-.02	.03	.60	.00	-.00	-.11	-.00	-.01		.00	.00	.001
		21.7	-.02	-.05	.47	.00	-.00	-.11	-.00	-.01		.00	.00	.000
		29.0	-.02	-.13	.34	.00	-.00	-.11	-.00	-.01		.00	.00	.000
301- 401	DKL- 1	0.0	-.04	-2.59	11.05	.12	.01	5.97	-.00	-.02		.01	.01	.001
		7.1	-.04	-1.43	1.03	.12	.01	5.97	-.00	-.00		.01	.01	.000
		14.2	-.04	-.28	-9.00	.12	.01	5.97	-.00	-.01		.01	.01	.001
		21.4	-.04	.88	-19.02	.12	.01	5.97	-.00	-.03		.01	.01	.001
		28.5	-.04	2.03	-29.05	.12	.01	5.97	-.00	-.05		.01	.01	.002
303- 306	123- 1	0.0	.20	-.12	-1.09	-.01	-.00	.06	.01	.02		.00	.00	.001
		7.2	.20	-.12	-.50	-.01	-.00	.06	.01	.01		.00	.00	.001
		14.5	.20	-.13	.08	-.01	-.00	.06	.01	.00		.00	.00	.001
		21.7	.20	-.13	.67	-.01	-.00	.06	.01	.01		.00	.00	.001
		29.0	.20	-.13	1.26	-.01	-.00	.06	.01	.02		.00	.00	.001
303- 403	DKL- 1	0.0	-.01	10.99	-6.57	-.09	-.11	-2.32	-.00	-.02		.00	.00	.001
		7.1	-.01	1.75	1.20	-.09	-.11	-2.32	-.00	-.00		.00	.00	.000
		14.2	-.01	-7.49	8.96	-.09	-.11	-2.32	-.00	-.02		.00	.00	.001
		21.4	-.01	-16.73	16.73	-.09	-.11	-2.32	-.00	-.04		.00	.00	.002
		28.5	-.01	-25.97	24.49	-.09	-.11	-2.32	-.00	-.06		.00	.00	.002

AD-A165 651 FATIGUE ANALYSIS EAST COAST AIR COMBAT MANEUVERING 4/6
RANGE OFFSHORE KITTY H.. (U) CREST ENGINEERING INC TULSA
OK SEP 76 27-771-100 CHES/NAVFAC-FPO-7616
UNCLASSIFIED N62477-76-C-0179 F/G 13/13 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963 A

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
306- 406	DRL- 1	0.0	-.00	-7.35	-6.87	-.07	.10	-3.58	-.00	-.02		.01	.01	.001
		7.1	-.00	.96	-.78	-.07	.10	-3.58	-.00	-.00		.01	.01	.000
		14.2	-.00	9.28	5.32	-.07	.10	-3.58	-.00	-.02		.01	.01	.001
		21.4	-.00	17.60	11.41	-.07	.10	-3.58	-.00	-.03		.01	.01	.001
		28.5	-.00	25.91	17.51	-.07	.10	-3.58	-.00	-.05		.01	.01	.002
401- 501	JL4- 1	0.0	-1.28	-10.57	-8.00	-.99	-.26	13.54	-.01	-.00		.01	.01	.000
		1.1	-1.28	-14.18	5.49	-.99	-.26	13.54	-.01	-.01		.01	.01	.000
		2.3	-1.28	-17.79	18.98	-.99	-.26	13.54	-.01	-.01		.01	.01	.001
		3.4	-1.28	-21.40	32.47	-.99	-.26	13.54	-.01	-.01		.01	.01	.001
		4.6	-1.28	-25.01	45.95	-.99	-.26	13.54	-.01	-.02		.01	.01	.001
401- 510	P1- 1	0.0	1.23	-15.53	19.74	.94	.16	-5.53	.01	.01		.01	.01	.001
		1.1	1.23	-13.28	6.87	.94	.16	-5.53	.01	.01		.01	.01	.001
		2.3	1.23	-11.04	-5.99	.94	.16	-5.53	.01	.01		.01	.01	.001
		3.4	1.23	-8.79	-18.86	.94	.16	-5.53	.01	.01		.01	.01	.001
		4.6	1.23	-6.55	-31.72	.94	.16	-5.53	.01	.02		.01	.01	.001
403- 503	JL4- 1	0.0	-38.51	-18.93	-7.57	.63	.29	-17.01	-.15	-.01		.01	.01	.007
		1.1	-38.51	-15.00	-16.20	.63	.29	-17.01	-.15	-.01		.01	.01	.007
		2.3	-38.51	-11.06	-24.82	.63	.29	-17.01	-.15	-.01		.01	.01	.007
		3.4	-38.51	-7.13	-33.44	.63	.29	-17.01	-.15	-.01		.01	.01	.008
		4.6	-38.51	-3.20	-42.07	.63	.29	-17.01	-.15	-.01		.01	.01	.008
403- 511	P1- 1	0.0	38.55	10.39	-27.26	-.51	-.26	8.93	.17	.01		.01	.01	.009
		1.1	38.55	6.76	-20.24	-.51	-.26	8.93	.17	.01		.01	.01	.008
		2.3	38.55	3.13	-13.23	-.51	-.26	8.93	.17	.01		.01	.01	.008
		3.4	38.55	-.49	-6.22	-.51	-.26	8.93	.17	.00		.01	.01	.008
		4.6	38.55	-4.12	.79	-.51	-.26	8.93	.17	.00		.01	.01	.008
406- 506	JL4- 1	0.0	39.47	21.26	11.64	.24	-.29	-10.40	.16	.01		.00	.00	.008
		1.1	39.47	17.24	8.34	.24	-.29	-10.40	.16	.01		.00	.00	.007
		2.3	39.47	13.22	5.05	.24	-.29	-10.40	.16	.00		.00	.00	.007
		3.4	39.47	9.20	1.75	.24	-.29	-10.40	.16	.00		.00	.00	.007
		4.6	39.47	5.18	-1.55	.24	-.29	-10.40	.16	.00		.00	.00	.007
406- 512	P1- 1	0.0	-39.46	4.65	6.22	-.51	.38	9.74	-.18	-.00		.01	.01	.008
		1.1	-39.46	9.81	10.50	-.51	.38	9.74	-.18	-.01		.01	.01	.009
		2.3	-39.46	14.97	14.78	-.51	.38	9.74	-.18	-.01		.01	.01	.009
		3.4	-39.46	20.14	19.07	-.51	.38	9.74	-.18	-.01		.01	.01	.009
		4.6	-39.46	25.30	23.35	-.51	.38	9.74	-.18	-.02		.01	.01	.009
501- 502	165- 1	0.0	1.08	-1.66	13.28	.10	.00	-.44	.04	.12		.01	.01	.007
		3.8	1.08	-1.55	8.56	.10	.00	-.44	.04	.08		.01	.01	.005
		7.6	1.08	-1.44	3.83	.10	.00	-.44	.04	.04		.01	.01	.003
		11.4	1.08	-1.32	-.89	.10	.00	-.44	.04	.01		.01	.01	.002
		15.1	1.08	-1.21	-5.62	.10	.00	-.44	.04	.05		.01	.01	.004

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
501- 504	165- 1	0.0	-1.90	-1.37	13.48	.11	.01	.96	-.06	-.12		.01	.01	.009
		3.8	-1.90	-1.04	8.47	.11	.01	.96	-.06	-.08		.01	.01	.007
		7.6	-1.90	-.70	3.45	.11	.01	.96	-.06	-.03		.01	.01	.005
		11.4	-1.90	-.37	-1.56	.11	.01	.96	-.06	-.01		.01	.01	.004
		15.1	-1.90	-.03	-6.57	.11	.01	.96	-.06	-.06		.01	.01	.006
501- 601	JL5- 1	0.0	-2.27	-29.92	29.27	1.50	.54	22.07	-.02	-.03		.03	.03	.002
		1.5	-2.27	-20.11	1.85	1.50	.54	22.07	-.02	-.01		.03	.03	.001
		3.0	-2.27	-10.30	-25.56	1.50	.54	22.07	-.02	-.02		.03	.03	.001
		4.6	-2.27	-.48	-52.98	1.50	.54	22.07	-.02	-.03		.03	.03	.002
		6.1	-2.27	9.33	-80.40	1.50	.54	22.07	-.02	-.05		.03	.03	.003
501- 622	200- 1	0.0	1.97	4.73	-22.25	-.20	-.07	-.84	.05	.13		.01	.01	.008
		5.1	1.97	.68	-9.88	-.20	-.07	-.84	.05	.06		.01	.01	.005
		10.2	1.97	-3.37	2.47	-.20	-.07	-.84	.05	.02		.01	.01	.003
		15.3	1.97	-7.41	14.81	-.19	-.07	-.84	.05	.09		.01	.01	.006
		20.4	1.97	-11.33	23.56	-.09	-.06	-.84	.05	.15		.01	.01	.009
502- 503	165- 1	0.0	1.21	-1.11	-4.79	-.06	-.00	-.21	.04	.04		.00	.00	.004
		3.8	1.21	-1.20	-2.12	-.06	-.00	-.21	.04	.02		.00	.00	.003
		7.6	1.21	-1.29	.55	-.06	-.00	-.21	.04	.01		.00	.00	.002
		11.4	1.21	-1.38	3.22	-.06	-.00	-.21	.04	.03		.00	.00	.003
		15.1	1.21	-1.47	5.88	-.06	-.00	-.21	.04	.05		.00	.00	.004
502- 504	105- 1	0.0	.04	-.10	-.74	-.01	.00	-.05	.00	.02		.00	.00	.001
		3.8	.04	-.01	-.40	-.01	.00	-.05	.00	.01		.00	.00	.001
		7.6	.04	.08	-.07	-.01	.00	-.05	.00	.00		.00	.00	.000
		11.4	.04	.17	.27	-.01	.00	-.05	.00	.01		.00	.00	.001
		15.2	.04	.26	.60	-.01	.00	-.05	.00	.02		.00	.00	.001
502- 505	105- 1	0.0	-.22	-.24	-.09	.00	.00	.09	-.02	-.01		.00	.00	.001
		3.8	-.22	-.12	-.21	.00	.00	.09	-.02	-.01		.00	.00	.001
		7.6	-.22	-.01	-.32	.00	.00	.09	-.02	-.01		.00	.00	.001
		11.4	-.22	.10	-.44	.00	.00	.09	-.02	-.01		.00	.00	.002
		15.2	-.22	.21	-.55	.00	.00	.09	-.02	-.02		.00	.00	.002
503- 505	165- 1	0.0	.67	-.45	-4.01	-.02	.01	-.70	.02	.04		.00	.00	.003
		3.8	.67	-.18	-3.17	-.02	.01	-.70	.02	.03		.00	.00	.002
		7.6	.67	.09	-2.33	-.02	.01	-.70	.02	.02		.00	.00	.002
		11.4	.67	.36	-1.50	-.02	.01	-.70	.02	.01		.00	.00	.002
		15.1	.67	.63	-.66	-.02	.01	-.70	.02	.01		.00	.00	.001
503- 603	JL5- 1	0.0	-34.04	18.92	-33.89	-1.21	-.85	-35.61	-.24	-.02		.03	.03	.012
		1.5	-34.04	3.43	-11.90	-1.21	-.85	-35.61	-.24	-.01		.03	.03	.011
		3.0	-34.04	-12.06	10.10	-1.21	-.85	-35.61	-.24	-.01		.03	.03	.012
		4.6	-34.04	-27.54	32.10	-1.21	-.85	-35.61	-.24	-.03		.03	.03	.012
		6.1	-34.04	-43.05	54.10	-1.21	-.85	-35.61	-.24	-.04		.03	.03	.013

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
503- 625	200- 1	0.0	-4.10	-21.51	-11.81	-.06	.19	-1.46	-.11	-.14		.01	.01	.011
		5.1	-4.10	-10.04	-8.26	-.06	.19	-1.46	-.11	-.07		.01	.01	.008
		10.1	-4.10	1.43	-4.72	-.06	.19	-1.46	-.11	-.03		.01	.01	.007
		15.2	-4.10	12.90	-1.17	-.06	.19	-1.46	-.11	-.07		.01	.01	.008
		20.3	-4.11	21.23	1.72	-.04	.09	-1.46	-.11	-.12		.01	.01	.010
504- 505	105- 1	0.0	.18	-.15	.21	.01	.00	-.04	.02	.01		.00	.00	.001
		3.8	.18	-.13	-.02	.01	.00	-.04	.02	.00		.00	.00	.001
		7.6	.18	-.11	-.25	.01	.00	-.04	.02	.01		.00	.00	.001
		11.4	.18	-.10	-.49	.01	.00	-.04	.02	.02		.00	.00	.001
		15.2	.18	-.08	-.72	.01	.00	-.04	.02	.02		.00	.00	.002
504- 506	165- 1	0.0	-1.97	.25	-6.18	-.09	.01	1.06	-.07	-.06		.01	.01	.006
		3.8	-1.97	.66	-2.29	-.09	.01	1.06	-.07	-.02		.01	.01	.005
		7.6	-1.97	1.07	1.59	-.09	.01	1.06	-.07	-.02		.01	.01	.004
		11.4	-1.97	1.48	5.48	-.09	.01	1.06	-.07	-.05		.01	.01	.006
		15.2	-1.97	1.89	9.37	-.09	.01	1.06	-.07	-.09		.01	.01	.007
505- 506	165- 1	0.0	.46	.82	-1.93	-.05	.01	-.76	.02	.02		.01	.01	.001
		3.8	.46	1.21	.53	-.05	.01	-.76	.02	.01		.01	.01	.001
		7.6	.46	1.61	3.00	-.05	.01	-.76	.02	.03		.01	.01	.002
		11.4	.46	2.01	5.46	-.05	.01	-.76	.02	.05		.01	.01	.003
		15.2	.46	2.41	7.93	-.05	.01	-.76	.02	.07		.01	.01	.004
506- 606	JLS- 1	0.0	37.90	22.54	10.59	-.10	.34	-5.39	.27	.02		.01	.01	.013
		1.5	37.90	28.72	12.48	-.10	.34	-5.39	.27	.02		.01	.01	.013
		3.0	37.90	34.90	14.37	-.10	.34	-5.39	.27	.02		.01	.01	.013
		4.6	37.90	41.08	16.26	-.10	.34	-5.39	.27	.03		.01	.01	.013
		6.1	37.90	47.26	18.15	-.10	.34	-5.39	.27	.03		.01	.01	.014
506- 624	200- 1	0.0	2.73	3.82	26.54	.20	-.02	1.93	.07	.15		.02	.02	.010
		5.1	2.73	2.45	14.29	.20	-.02	1.93	.07	.08		.02	.02	.007
		10.1	2.73	1.07	2.04	.20	-.02	1.93	.07	.01		.02	.02	.004
		15.2	2.73	-.30	-10.21	.20	-.02	1.93	.07	.06		.02	.02	.006
		20.2	2.74	-1.56	-21.46	.15	-.02	1.93	.07	.12		.01	.01	.008
510- 710	P1- 1	0.0	1.23	-6.34	-31.76	.72	.23	-5.53	.01	.02		.01	.01	.001
		6.3	1.23	11.49	-86.41	.72	.23	-5.53	.01	.04		.01	.01	.002
		12.7	1.23	29.32	-141.06	.72	.23	-5.53	.01	.07		.01	.01	.003
		19.0	1.23	47.15	-195.71	.72	.23	-5.53	.01	.09		.01	.01	.004
		25.3	1.23	64.98	-250.36	.72	.23	-5.53	.01	.12		.01	.01	.005
511- 711	P1- 1	0.0	38.55	-4.11	.82	-.73	-.66	8.93	.17	.00		.01	.01	.008
		6.3	38.55	-54.22	56.35	-.73	-.66	8.93	.17	.04		.01	.01	.010
		12.7	38.55	-104.33	111.89	-.73	-.66	8.93	.17	.07		.01	.01	.011
		19.0	38.55	-154.43	167.42	-.73	-.66	8.93	.17	.11		.01	.01	.013
		25.3	38.55	-204.54	222.95	-.73	-.66	8.93	.17	.14		.01	.01	.014

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 1

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
512- 712	P1- 1	0.0	-39.46	25.30	23.34	.07	.39	9.75	-.18	-.02		.01	.01	.009
		6.3	-39.46	54.88	17.90	.07	.39	9.75	-.18	-.03		.01	.01	.010
		12.7	-39.46	84.46	12.45	.07	.39	9.75	-.18	-.04		.01	.01	.010
		19.0	-39.46	114.04	7.00	.07	.39	9.75	-.18	-.05		.01	.01	.011
		25.3	-39.46	143.62	1.55	.07	.39	9.75	-.18	-.07		.01	.01	.012
601- 621	JL6- 1	0.0	-2.15	11.97	-77.99	1.16	.30	36.54	-.02	-.05		.03	.03	.003
		1.5	-2.15	17.41	-99.16	1.16	.30	36.54	-.02	-.06		.03	.03	.003
		3.0	-2.15	22.85	-120.34	1.16	.30	36.54	-.02	-.08		.03	.03	.004
		4.6	-2.15	28.27	-141.05	1.08	.30	36.54	-.02	-.09		.03	.03	.005
		6.1	-2.15	33.67	-159.61	.88	.30	36.54	-.02	-.10		.02	.02	.005
603- 623	JL6- 1	0.0	-33.78	-39.12	45.12	-.94	-.86	-38.22	-.24	-.04		.03	.03	.013
		1.5	-33.78	-54.84	62.33	-.94	-.86	-38.22	-.24	-.05		.03	.03	.013
		3.0	-33.80	-70.31	79.41	-.91	-.81	-38.22	-.24	-.07		.03	.03	.014
		4.6	-33.83	-85.98	95.51	-.85	-.69	-38.22	-.24	-.08		.03	.03	.014
		6.1	-33.88	-95.75	110.57	-.76	-.53	-38.22	-.24	-.09		.03	.03	.015
606- 626	JL6- 1	0.0	37.90	47.26	18.13	-.10	.46	-5.45	.27	.03		.01	.01	.014
		1.5	37.90	55.68	20.02	-.10	.46	-5.45	.27	.04		.01	.01	.014
		3.0	37.90	64.10	21.91	-.10	.46	-5.45	.27	.04		.01	.01	.014
		4.6	37.90	72.51	23.80	-.10	.46	-5.45	.27	.05		.01	.01	.014
		6.1	37.92	80.56	25.49	-.07	.39	-5.45	.27	.05		.01	.01	.015
621- 651	JL6- 1	0.0	-2.15	32.94	-159.53	.94	.29	36.74	-.02	-.10		.03	.03	.005
		1.5	-2.15	38.19	-174.33	.69	.28	36.74	-.02	-.11		.02	.02	.005
		3.0	-2.15	43.36	-184.60	.44	.28	36.74	-.02	-.12		.02	.02	.006
		4.6	-2.15	48.53	-190.40	.20	.28	36.74	-.02	-.12		.02	.02	.006
		6.1	-2.15	53.66	-191.84	-.04	.28	36.74	-.02	-.13		.02	.02	.006
622- 703	20U- 1	0.0	1.97	-11.35	23.56	-.09	-.04	-1.13	.05	.15		.01	.01	.009
		5.4	1.99	-11.26	24.51	.07	.04	-1.13	.05	.15		.01	.01	.009
		10.9	2.01	-5.61	15.04	.22	.12	-1.13	.05	.09		.02	.02	.006
		16.3	2.03	5.00	-4.85	.38	.21	-1.13	.05	.04		.03	.03	.004
		21.8	2.05	21.15	-34.16	.51	.29	-1.13	.05	.22		.03	.03	.012
623- 653	JL6- 1	0.0	-33.86	-96.10	109.94	-.76	-.63	-38.46	-.24	-.09		.03	.03	.015
		1.5	-33.80	-105.90	122.59	-.63	-.45	-38.46	-.24	-.10		.02	.02	.015
		3.0	-33.74	-112.40	132.91	-.50	-.27	-38.46	-.24	-.11		.02	.02	.016
		4.6	-33.68	-115.77	140.96	-.38	-.10	-38.46	-.24	-.11		.02	.02	.016
		6.1	-33.62	-116.08	146.85	-.27	.06	-38.46	-.24	-.12		.02	.02	.016
624- 701	20U- 1	0.0	2.74	-1.55	-21.48	.15	-.02	1.92	.07	.12		.01	.01	.008
		5.5	2.75	-2.56	-25.45	-.03	-.01	1.92	.07	.14		.01	.01	.009
		11.0	2.77	-2.71	-18.56	-.18	.01	1.92	.07	.10		.01	.01	.008
		16.5	2.80	-1.64	-1.64	-.33	.05	1.92	.07	.01		.02	.02	.004
		21.9	2.80	1.47	25.27	-.48	.07	1.92	.07	.14		.03	.03	.009

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
625- 706	200- 1	0.0	-4.11	21.23	1.72	-.03	.09	-1.45	-.11	-.12		.01	.01	.010
		5.5	-4.11	20.88	3.75	-.02	-.09	-1.45	-.11	-.12		.01	.01	.010
		11.0	-4.10	10.48	4.62	-.00	-.22	-1.45	-.11	-.06		.02	.02	.008
		16.4	-4.10	-8.62	3.87	.02	-.36	-1.45	-.11	-.05		.02	.02	.008
		21.9	-4.09	-36.40	1.50	.05	-.49	-1.45	-.11	-.20		.03	.03	.014
626- 656	JL6- 1	0.0	37.92	80.56	25.50	-.07	.33	-5.41	.27	.05		.01	.01	.015
		1.5	37.86	84.90	25.63	.05	.15	-5.41	.26	.06		.00	.00	.015
		3.0	37.80	85.92	23.68	.16	-.03	-5.41	.26	.06		.00	.00	.015
		4.6	37.74	83.74	19.76	.27	-.20	-5.41	.26	.05		.01	.01	.014
		6.1	37.68	78.50	13.90	.37	-.37	-5.41	.26	.05		.01	.01	.014
651- 701	JL6- 1	0.0	-2.47	51.65	-191.22	-1.59	-.12	59.90	-.02	-.12		.04	.04	.006
		1.8	-2.47	49.06	-154.69	-1.84	-.12	59.90	-.02	-.10		.04	.04	.005
		3.5	-2.47	46.50	-112.75	-2.09	-.12	59.90	-.02	-.08		.05	.05	.004
		5.3	-2.47	43.92	-65.58	-2.33	-.12	59.90	-.02	-.05		.05	.05	.003
		7.1	-2.47	41.35	-13.41	-2.56	-.12	59.90	-.02	-.03		.05	.05	.002
653- 703	JL6- 1	0.0	-35.92	-121.69	154.53	.90	.56	-44.57	-.25	-.12		.03	.03	.017
		1.8	-35.92	-107.40	134.12	1.02	.78	-44.57	-.25	-.11		.03	.03	.016
		3.5	-35.92	-88.60	111.25	1.13	.99	-44.57	-.25	-.09		.03	.03	.016
		5.3	-35.92	-65.42	86.05	1.24	1.19	-44.57	-.25	-.07		.04	.04	.015
		7.1	-35.92	-38.06	58.63	1.34	1.38	-44.57	-.25	-.04		.04	.04	.014
656- 706	JL6- 1	0.0	37.68	78.50	13.91	.37	-.39	-5.40	.26	.05		.01	.01	.014
		1.8	37.68	68.03	4.62	.50	-.60	-5.40	.26	.04		.01	.01	.014
		3.5	37.68	53.15	-7.31	.62	-.80	-5.40	.26	.03		.02	.02	.014
		5.3	37.69	34.02	-21.85	.74	-1.00	-5.40	.26	.03		.02	.02	.013
		7.1	37.69	10.66	-38.85	.85	-1.20	-5.40	.26	.03		.02	.02	.013
701- 702	137- 1	0.0	3.88	.69	5.82	-.02	-.00	-.23	.20	.10		.00	.00	.014
		4.7	3.88	.55	5.81	.02	-.00	-.23	.20	.10		.00	.00	.014
		9.4	3.88	.40	3.15	.07	-.00	-.23	.20	.06		.01	.01	.012
		14.1	3.88	.26	-2.15	.12	-.00	-.23	.20	.04		.01	.01	.011
		18.8	3.88	.11	-10.09	.16	-.00	-.23	.20	.18		.02	.02	.017
701- 704	137- 1	0.0	-.40	-1.51	4.12	-.07	.01	-.34	-.02	-.08		.01	.01	.005
		4.7	-.41	-.93	6.12	-.00	.01	-.34	-.02	-.11		.00	.00	.006
		9.4	-.43	-.34	4.52	.06	.01	-.34	-.02	-.08		.01	.01	.005
		14.1	-.45	.24	-.69	.12	.01	-.34	-.02	-.01		.02	.02	.002
		18.8	-.46	.82	-9.50	.19	.01	-.34	-.02	-.17		.02	.02	.009
701- 801	JL7- 1	0.0	2.84	27.49	-25.09	1.34	-.17	15.65	.04	.05		.05	.05	.004
		7.1	2.84	14.25	-102.86	.51	-.15	15.65	.04	.13		.02	.02	.007
		14.2	2.85	2.26	-115.06	-.20	-.14	15.65	.04	.15		.02	.02	.008
		21.3	2.85	-9.07	-71.78	-.80	-.13	15.65	.04	.09		.03	.03	.006
		28.4	2.85	-19.50	18.34	-1.31	-.11	15.65	.04	.03		.05	.05	.003

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER GROUP AND SECT.	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
701- 806 200- 1	0.0	-6.27	-23.72	-59.98	-.54	.27	-1.25	-.16	-.26		.04	.04	.021
	12.5	-6.26	5.17	16.76	-.22	.12	-1.25	-.16	-.10		.02	.02	.014
	25.1	-6.20	15.62	29.49	.04	.01	-1.25	-.16	-.19		.01	.01	.018
	37.6	-6.16	8.09	8.40	.23	-.12	-1.25	-.16	-.07		.02	.02	.013
	50.2	-6.14	-19.58	-38.66	.40	-.25	-1.25	-.16	-.24		.03	.03	.020
702- 703 137- 1	0.0	4.16	.09	-6.53	-.14	-.01	.30	.22	.12		.02	.02	.015
	4.7	4.16	-.28	-.19	-.09	-.01	.30	.22	.01		.01	.01	.010
	9.4	4.16	-.65	3.51	-.04	-.01	.30	.22	.06		.01	.01	.013
	14.1	4.16	-1.01	4.57	.00	-.01	.30	.22	.08		.00	.00	.013
	18.8	4.16	-1.38	2.99	.05	-.01	.30	.22	.06		.01	.01	.012
702- 704 107- 1	0.0	-.04	-.35	.44	.00	.00	.10	-.00	-.02		.00	.00	.001
	4.7	-.04	-.20	.38	.00	.00	.10	-.00	-.01		.00	.00	.001
	9.4	-.04	-.04	.32	.00	.00	.10	-.00	-.01		.00	.00	.001
	14.1	-.04	.12	.27	.00	.00	.10	-.00	-.01		.00	.00	.001
	18.8	-.04	.27	.21	.00	.00	.10	-.00	-.01		.00	.00	.001
702- 705 107- 1	0.0	-.38	-.18	-4.00	-.12	.00	-.04	-.03	-.13		.02	.02	.007
	4.7	-.40	-.12	1.15	-.06	.00	-.04	-.03	-.04		.01	.01	.004
	9.4	-.41	-.05	2.69	.00	.00	-.04	-.03	-.09		.00	.00	.006
	14.1	-.43	.01	.62	.07	.00	-.04	-.04	-.02		.01	.01	.003
	18.8	-.45	.08	-5.04	.13	.00	-.04	-.04	-.17		.02	.02	.009
703- 705 137- 1	0.0	-2.76	-1.73	-8.58	-.07	.01	-.26	-.14	-.15		.01	.01	.016
	4.7	-2.76	-1.26	-4.85	-.07	.01	-.26	-.14	-.09		.01	.01	.013
	9.4	-2.76	-.79	-1.11	-.07	.01	-.26	-.14	-.02		.01	.01	.011
	14.1	-2.76	-.32	2.63	-.07	.01	-.26	-.14	-.05		.01	.01	.012
	18.8	-2.76	.15	6.36	-.07	.01	-.26	-.14	-.11		.01	.01	.014
703- 801 200- 1	0.0	-6.23	-3.75	49.22	.59	.01	1.10	-.16	-.28		.03	.03	.022
	12.5	-6.22	-2.16	-13.62	.26	.02	1.10	-.16	-.08		.02	.02	.013
	25.1	-6.20	.79	-33.37	.01	.02	1.10	-.16	-.19		.00	.00	.016
	37.6	-6.19	4.92	-15.45	-.24	.03	1.10	-.16	-.09		.02	.02	.014
	50.2	-6.19	10.05	34.75	-.41	.04	1.10	-.16	-.20		.02	.02	.018
703- 803 JL7- 1	0.0	-31.64	-31.58	61.16	-.39	-1.07	11.92	-.45	-.09		.04	.04	.026
	7.1	-31.64	-92.78	78.44	-.02	-.39	11.92	-.45	-.15		.02	.02	.028
	14.2	-31.62	-100.25	67.13	.28	.19	11.92	-.45	-.15		.02	.02	.028
	21.3	-31.61	-62.62	32.80	.52	.68	11.92	-.45	-.09		.03	.03	.026
	28.4	-31.62	12.62	-20.47	.73	1.08	11.92	-.45	-.03		.04	.04	.023
704- 705 107- 1	0.0	.47	.48	-4.04	-.10	-.00	.03	.04	.14		.02	.02	.008
	4.7	.47	.29	.16	-.05	-.00	.03	.04	.01		.01	.01	.002
	9.4	.47	.10	1.72	-.00	-.00	.03	.04	.06		.00	.00	.004
	14.1	.47	-.09	.64	.04	-.00	.03	.04	.02		.01	.01	.003
	18.8	.47	-.28	-3.06	.09	-.00	.03	.04	.10		.02	.02	.006

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
704- 706	137- 1	0.0	-.80	.61	-5.25	-.14	.02	.35	-.04	-.09		.02	.02	.007
		4.7	-.82	1.42	.64	-.07	.01	.35	-.04	-.03		.01	.01	.004
		9.4	-.84	1.58	2.93	-.01	-.01	.35	-.04	-.06		.00	.00	.005
		14.1	-.86	.42	1.62	.06	-.04	.35	-.04	-.03		.01	.01	.004
		18.8	-.87	-2.72	-3.31	.12	-.08	.35	-.05	-.08		.02	.02	.006
705- 706	137- 1	0.0	-3.42	.32	-1.76	-.02	.01	-.12	-.18	-.03		.00	.00	.013
		4.7	-3.42	.66	-.57	-.02	.01	-.12	-.18	-.02		.00	.00	.012
		9.4	-3.42	1.01	.62	-.02	.01	-.12	-.18	-.02		.00	.00	.013
		14.1	-3.42	1.13	1.81	-.02	-.01	-.12	-.18	-.04		.00	.00	.013
		18.8	-3.42	-.06	3.00	-.02	-.04	-.12	-.18	-.05		.01	.01	.014
706- 803	200- 1	0.0	11.28	29.64	-14.78	-.07	-.27	-.23	.30	.19		.02	.02	.022
		12.5	11.22	-3.27	-4.14	-.07	-.16	-.23	.30	.03		.01	.01	.015
		25.1	11.19	-18.33	3.93	-.04	-.04	-.23	.29	.10		.00	.00	.018
		37.6	11.17	-13.32	6.82	.00	.10	-.23	.29	.08		.01	.01	.017
		50.2	11.18	13.95	1.97	.06	.26	-.23	.29	.08		.01	.01	.017
706- 806	JL7- 1	0.0	29.48	5.41	-42.22	-.87	1.17	-20.02	.42	.05		.05	.05	.022
		7.1	29.48	75.87	14.68	-.47	.50	-20.02	.42	.10		.03	.03	.023
		14.2	29.46	94.16	39.85	-.13	-.06	-20.02	.42	.13		.02	.02	.025
		21.3	29.45	66.72	57.83	.17	-.57	-20.02	.42	.10		.03	.03	.023
		28.4	29.45	-1.94	13.16	.40	-1.03	-20.02	.42	.02		.04	.04	.020
710- 810	P2- 1	0.0	1.23	64.61	-250.46	-.27	-.27	-5.45	.00	.11		.00	.00	.005
		7.1	1.23	41.87	-227.74	-.27	-.27	-5.45	.00	.10		.00	.00	.004
		14.2	1.23	19.14	-205.02	-.27	-.27	-5.45	.00	.09		.00	.00	.004
		21.3	1.23	-3.60	-182.30	-.27	-.27	-5.45	.00	.08		.00	.00	.003
		28.4	1.23	-26.33	-159.58	-.27	-.27	-5.45	.00	.07		.00	.00	.003
711- 811	P2- 1	0.0	38.55	-204.87	222.66	.52	.16	8.79	.15	.13		.01	.01	.012
		7.1	38.55	-191.57	178.08	.52	.16	8.79	.15	.11		.01	.01	.012
		14.2	38.55	-178.26	133.50	.52	.16	8.79	.15	.09		.01	.01	.011
		21.3	38.55	-164.96	88.93	.52	.16	8.79	.15	.08		.01	.01	.010
		28.4	38.55	-151.66	44.35	.52	.16	8.79	.15	.07		.01	.01	.010
712- 812	P2- 1	0.0	-39.46	143.62	1.55	-.31	.10	9.75	-.16	-.06		.00	.00	.010
		7.1	-39.46	152.42	28.03	-.31	.10	9.75	-.16	-.06		.00	.00	.010
		14.2	-39.46	161.21	54.52	-.31	.10	9.75	-.16	-.07		.00	.00	.011
		21.3	-39.46	170.00	81.00	-.31	.10	9.75	-.16	-.08		.00	.00	.011
		28.4	-39.46	178.79	107.48	-.31	.10	9.75	-.16	-.09		.00	.00	.011
801- 802	148- 1	0.0	.27	2.11	7.76	-.04	-.01	-.42	.01	.12		.01	.01	.005
		5.7	.27	1.68	8.72	.01	-.01	-.42	.01	.13		.00	.00	.006
		11.4	.27	1.24	5.76	.07	-.01	-.42	.01	.09		.01	.01	.004
		17.1	.27	.81	-1.04	.13	-.01	-.42	.01	.02		.02	.02	.001
		22.8	.27	.37	-11.77	.19	-.01	-.42	.01	.17		.02	.02	.008

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
801- 804	14B- 1	0.0	-2.74	-2.51	8.84	-.02	.01	-.85	-.13	-.13		.01	.01	.015
		5.7	-2.71	-1.84	8.54	.03	.01	-.85	-.13	-.13		.01	.01	.014
		11.4	-2.69	-1.17	4.86	.08	.01	-.85	-.13	-.07		.01	.01	.012
		17.1	-2.66	-.50	-2.20	.13	.01	-.85	-.13	-.03		.02	.02	.010
		22.8	-2.63	.16	-12.62	.18	.01	-.85	-.12	-.18		.02	.02	.017
801- 901	JLB- 1	0.0	-4.82	-4.69	20.89	.93	-.02	-11.40	-.07	-.03		.03	.03	.005
		8.1	-4.81	-5.49	-44.35	.42	-.00	-11.40	-.07	-.06		.02	.02	.006
		16.2	-4.81	-5.85	-62.02	-.04	-.00	-11.40	-.07	-.08		.01	.01	.007
		24.3	-4.81	-5.58	-39.07	-.42	.01	-11.40	-.07	-.05		.02	.02	.005
		32.4	-4.81	-4.46	17.53	-.74	.01	-11.40	-.07	-.02		.03	.03	.004
801- 903	200- 1	0.0	7.68	3.93	-19.46	-.27	-.02	-1.73	.20	.11		.02	.02	.014
		14.9	7.68	.88	15.46	-.12	-.01	-1.73	.20	.09		.01	.01	.013
		29.8	7.69	-1.41	23.82	.03	-.01	-1.73	.20	.13		.01	.01	.015
		44.7	7.70	-2.95	5.54	.18	-.01	-1.73	.20	.04		.01	.01	.011
		59.6	7.70	-3.72	-39.34	.33	-.00	-1.73	.20	.22		.02	.02	.019
802- 803	14B- 1	0.0	.65	.40	-6.88	-.13	-.01	1.00	.03	.10		.02	.02	.006
		5.7	.65	-.46	.38	-.08	-.01	1.00	.03	.01		.01	.01	.002
		11.4	.65	-1.33	3.74	-.02	-.01	1.00	.03	.06		.01	.01	.004
		17.1	.65	-2.20	3.20	.04	-.01	1.00	.03	.06		.01	.01	.004
		22.8	.65	-3.06	-1.23	.09	-.01	1.00	.03	.05		.02	.02	.003
802- 804	10B- 1	0.0	.07	-.70	-.10	.00	.00	.34	.01	.02		.01	.01	.001
		5.7	.07	-.42	-.15	.00	.00	.34	.01	.01		.01	.01	.001
		11.4	.07	-.14	-.19	.00	.00	.34	.01	.01		.01	.01	.001
		17.1	.07	.14	-.24	.00	.00	.34	.01	.01		.01	.01	.001
		22.8	.07	.42	-.28	.00	.00	.34	.01	.02		.01	.01	.001
802- 805	10B- 1	0.0	-.50	-.60	-4.79	-.10	.00	-.25	-.04	-.16		.02	.02	.009
		5.7	-.47	-.45	.42	-.05	.00	-.25	-.04	-.02		.01	.01	.003
		11.4	-.44	-.29	2.24	-.00	.00	-.25	-.04	-.08		.00	.00	.006
		17.1	-.42	-.14	.70	.05	.00	-.25	-.03	-.02		.01	.01	.003
		22.8	-.39	.01	-4.23	.10	.00	-.25	-.03	-.14		.02	.02	.008
803- 805	14B- 1	0.0	2.52	-5.80	-5.29	-.03	.02	-.19	.12	.11		.00	.00	.010
		5.7	2.52	-4.41	-3.23	-.03	.02	-.19	.12	.08		.00	.00	.009
		11.4	2.52	-3.02	-1.16	-.03	.02	-.19	.12	.05		.00	.00	.007
		17.1	2.52	-1.63	.91	-.03	.02	-.19	.12	.03		.00	.00	.007
		22.8	2.52	-.24	2.98	-.03	.02	-.19	.12	.04		.00	.00	.007
803- 903	JLB- 1	0.0	-17.85	4.89	-19.28	-.55	-.61	-2.41	-.25	-.03		.02	.02	.013
		8.1	-17.86	-34.80	4.53	-.15	-.21	-2.41	-.25	-.04		.01	.01	.014
		16.2	-17.88	-36.67	10.97	.01	.16	-2.41	-.25	-.05		.01	.01	.015
		24.3	-17.91	-6.77	3.31	.14	.45	-2.41	-.25	-.01		.01	.01	.013
		32.4	-17.90	49.58	-17.07	.27	.71	-2.41	-.25	-.07		.02	.02	.015

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	Z ---KSI---	Y SHEAR STRESS	Z SHEAR STRESS ------/	COMB. UNITY CHECK
803- 906	200- 1	0.0	-14.32	-11.57	-9.80	-.03	.03	.42	-.38	-.08		.00	.00	.029
		14.9	-14.32	-5.36	-5.29	-.03	.03	.42	-.38	-.04		.00	.00	.027
		29.8	-14.32	.86	-.76	-.03	.03	.42	-.38	-.01		.00	.00	.025
		44.7	-14.32	7.07	3.73	-.03	.03	.42	-.38	-.04		.00	.00	.027
		59.6	-14.32	13.28	8.23	-.03	.03	.42	-.38	-.09		.00	.00	.029
804- 805	108- 1	0.0	.36	.75	-4.67	-.11	-.00	-.06	.03	.16		.02	.02	.008
		5.7	.36	.59	1.00	-.05	-.00	-.06	.03	.04		.01	.01	.003
		11.4	.36	.43	2.79	.00	-.00	-.06	.03	.09		.00	.00	.005
		17.1	.36	.26	.67	.06	-.00	-.06	.03	.02		.01	.01	.002
		22.8	.36	.10	-5.35	.12	-.00	-.06	.03	.18		.02	.02	.009
804- 806	148- 1	0.0	-2.87	-.25	-8.23	-.14	.02	.36	-.14	-.12		.02	.02	.015
		5.7	-2.84	.86	-.14	-.09	.02	.36	-.13	-.01		.01	.01	.010
		11.4	-2.81	1.97	4.59	-.04	.02	.36	-.13	-.07		.01	.01	.013
		17.1	-2.78	3.08	5.94	.00	.02	.36	-.13	-.10		.00	.00	.013
		22.8	-2.76	4.19	3.91	.05	.02	.36	-.13	-.08		.01	.01	.013
805- 806	148- 1	0.0	1.96	-.55	-6.60	-.06	.02	-.38	.09	.10		.01	.01	.008
		5.7	1.96	.83	-2.41	-.06	.02	-.38	.09	.04		.01	.01	.006
		11.4	1.96	2.21	1.78	-.06	.02	-.38	.09	.04		.01	.01	.006
		17.1	1.96	3.60	5.96	-.06	.02	-.38	.09	.10		.01	.01	.009
		22.8	1.96	4.98	10.15	-.06	.02	-.38	.09	.16		.01	.01	.011
806- 901	200- 1	0.0	7.89	15.11	41.26	.41	-.07	1.15	.21	.25		.03	.03	.020
		14.9	7.92	4.06	-13.50	.20	-.05	1.15	.21	.08		.01	.01	.013
		29.8	7.96	-2.79	-31.40	-.00	-.03	1.15	.21	.18		.00	.00	.017
		44.7	8.00	-5.46	-12.44	-.21	-.00	1.15	.21	.08		.01	.01	.013
		59.6	8.04	-3.94	43.39	-.42	.02	1.15	.21	.24		.03	.03	.020
806- 906	JL8- 1	0.0	21.95	3.88	4.80	-.43	.67	30.81	.31	.01		.04	.04	.015
		8.1	21.96	46.48	34.64	-.18	.21	30.81	.31	.07		.03	.03	.017
		16.2	21.97	46.90	41.10	.04	-.19	30.81	.31	.08		.03	.03	.016
		24.3	21.99	11.01	27.83	.22	-.53	30.81	.31	.04		.04	.04	.016
		32.4	21.98	-54.98	-1.50	.38	-.81	30.81	.31	.07		.04	.04	.017
810- 910	P2- 1	0.0	1.23	-26.16	-159.60	-.43	-.03	-5.57	.00	.07		.00	.00	.003
		8.1	1.23	-29.55	-118.14	-.43	-.03	-5.57	.00	.05		.00	.00	.002
		16.2	1.23	-32.94	-76.68	-.43	-.03	-5.57	.00	.03		.00	.00	.002
		24.3	1.23	-36.34	-35.22	-.43	-.03	-5.57	.00	.02		.00	.00	.001
		32.4	1.23	-39.73	6.24	-.43	-.03	-5.57	.00	.02		.00	.00	.001
811- 911	P2- 1	0.0	38.55	-151.60	44.51	.30	.64	8.85	.15	.07		.01	.01	.010
		8.1	38.55	-89.21	15.25	.30	.64	8.85	.15	.04		.01	.01	.009
		16.2	38.55	-26.81	-14.01	.30	.64	8.85	.15	.01		.01	.01	.008
		24.3	38.55	35.59	-43.28	.30	.64	8.85	.15	.02		.01	.01	.008
		32.4	38.55	97.99	-72.54	.30	.64	8.85	.15	.05		.01	.01	.009

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LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
912- 912	P2- 1	0.0	-39.45	178.79	107.48	.10	-.63	9.80	-.16	-.09		.01	.01	.011
		8.1	-39.45	117.63	97.42	.10	-.63	9.80	-.16	-.08		.01	.01	.010
		16.2	-39.45	56.47	87.37	.10	-.63	9.80	-.16	-.04		.01	.01	.010
		24.3	-39.45	-4.69	77.32	.10	-.63	9.80	-.16	-.03		.01	.01	.009
		32.4	-39.45	-65.85	67.27	.10	-.63	9.80	-.16	-.04		.01	.01	.009
901- 902	169- 1	0.0	-1.41	3.18	7.87	-.05	-.01	-.85	-.06	-.09		.01	.01	.008
		6.9	-1.41	2.47	9.18	.01	-.01	-.85	-.06	-.10		.01	.01	.009
		13.7	-1.41	1.75	6.20	.06	-.01	-.85	-.06	-.07		.01	.01	.007
		20.6	-1.41	1.04	.52	.08	-.01	-.85	-.06	-.01		.01	.01	.005
		27.4	-1.41	.33	-6.63	.09	-.01	-.85	-.06	-.07		.01	.01	.007
901- 904	169- 1	0.0	-3.83	-3.19	12.98	.06	.01	-.80	-.16	-.15		.01	.01	.018
		6.9	-3.83	-2.48	8.11	.06	.01	-.80	-.16	-.09		.01	.01	.016
		13.7	-3.83	-1.78	3.27	.06	.01	-.80	-.16	-.04		.01	.01	.013
		20.6	-3.83	-1.07	-1.58	.06	.01	-.80	-.16	-.02		.01	.01	.013
		27.4	-3.83	-.37	-6.43	.08	.01	-.80	-.16	-.07		.01	.01	.015
901-1001	JL9- 1	0.0	.05	-17.11	37.11	.63	.05	-13.99	.00	.05		.03	.03	.002
		8.1	.05	-13.24	-9.65	.55	.03	-13.99	.00	.02		.02	.02	.001
		16.2	.05	-10.91	-28.16	.05	.02	-13.99	.00	.04		.01	.01	.002
		24.3	.06	-7.01	-20.25	-.21	.06	-13.99	.00	.03		.02	.02	.001
		32.4	.06	1.59	12.24	-.46	.11	-13.99	.00	.02		.02	.02	.001
901-1002	180- 1	0.0	5.80	2.04	4.67	-.05	-.01	-1.90	.21	.04		.01	.01	.012
		10.6	5.80	1.50	5.39	.02	-.00	-1.90	.21	.05		.01	.01	.012
		21.1	5.80	1.24	2.26	.03	-.00	-1.90	.21	.02		.01	.01	.011
		31.7	5.80	.99	-.89	.05	-.00	-1.90	.21	.01		.01	.01	.010
		42.2	5.80	.74	-4.06	.05	-.00	-1.90	.21	.04		.01	.01	.011
931-1004	180- 1	0.0	-6.42	.84	5.60	.01	-.01	-1.63	-.23	-.05		.01	.01	.016
		10.6	-6.42	-.22	3.84	.01	-.01	-1.63	-.23	-.03		.01	.01	.015
		21.1	-6.42	-1.28	2.09	.01	-.01	-1.63	-.23	-.02		.01	.01	.015
		31.7	-6.42	-2.35	.34	.01	-.01	-1.63	-.23	-.02		.01	.01	.015
		42.2	-6.42	-3.41	-1.41	.01	-.01	-1.63	-.23	-.03		.01	.01	.015
902- 903	169- 1	0.0	-1.34	.50	-4.91	-.03	-.01	.57	-.06	-.05		.01	.01	.006
		6.9	-1.34	-.63	-2.05	-.03	-.01	.57	-.06	-.02		.01	.01	.005
		13.7	-1.34	-1.83	.81	-.03	-.01	.57	-.06	-.02		.01	.01	.005
		20.6	-1.34	-3.03	3.67	-.03	-.01	.57	-.06	-.05		.01	.01	.006
		27.4	-1.34	-4.22	6.54	-.03	-.01	.57	-.06	-.09		.01	.01	.008
902- 904	109- 1	0.0	-.00	-.61	-1.07	-.01	.00	.36	-.00	-.04		.01	.01	.002
		6.9	-.00	-.30	-.66	-.01	.00	.36	-.00	-.02		.01	.01	.001
		13.7	-.00	.01	-.25	-.01	.00	.36	-.00	-.01		.01	.01	.000
		20.6	-.00	.32	.17	-.01	.00	.36	-.00	-.01		.01	.01	.001
		27.4	-.00	.63	.58	-.01	.00	.36	-.00	-.03		.01	.01	.001

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LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	Z ------KSI------	Y SHEAR STRESS	Z SHEAR STRESS ------/	COMB. UNITY CHECK
902- 905	109- 1	0.0	-.14	-.73	-.64	-.00	.00	-.16	-.01	-.03		.00	.00	.002
		6.9	-.14	-.55	-.54	-.00	.00	-.16	-.01	-.03		.00	.00	.002
		13.7	-.14	-.38	-.43	-.00	.00	-.16	-.01	-.02		.00	.00	.002
		20.6	-.14	-.20	-.33	-.00	.00	-.16	-.01	-.01		.00	.00	.001
		27.4	-.14	-.03	-.23	-.00	.00	-.16	-.01	-.01		.00	.00	.001
903- 905	169- 1	0.0	4.85	-6.51	-3.88	-.01	.02	-.15	.20	.08		.00	.00	.013
		6.9	4.85	-4.83	-3.33	-.01	.02	-.15	.20	.06		.00	.00	.012
		13.7	4.85	-3.16	-2.79	-.01	.02	-.15	.20	.05		.00	.00	.011
		20.6	4.85	-1.48	-2.24	-.01	.02	-.15	.20	.03		.00	.00	.010
		27.4	4.85	.20	-1.70	-.01	.02	-.15	.20	.02		.00	.00	.010
903-1002	180- 1	0.0	-5.87	-.36	.40	.06	-.01	1.08	-.21	-.00		.01	.01	.013
		10.6	-5.87	-1.00	-2.46	-.00	-.00	1.08	-.21	-.02		.00	.00	.014
		21.1	-5.87	-1.35	-1.49	-.01	-.00	1.08	-.21	-.02		.01	.01	.013
		31.7	-5.87	-1.71	-.46	-.01	-.00	1.08	-.21	-.02		.01	.01	.013
		42.2	-5.87	-2.06	.58	-.01	-.00	1.08	-.21	-.02		.01	.01	.013
903-1003	JL9- 1	0.0	-1.28	41.27	-39.15	-.31	-.43	11.49	-.02	-.07		.02	.02	.004
		8.1	-1.24	10.44	-15.37	-.19	-.21	11.49	-.02	-.02		.02	.02	.002
		16.2	-1.22	-2.80	-2.14	-.09	-.06	11.49	-.02	-.00		.01	.01	.001
		24.3	-1.19	-1.47	1.35	.01	.09	11.49	-.02	-.00		.01	.01	.001
		32.4	-1.17	14.38	-4.80	.11	.24	11.49	-.02	-.02		.01	.01	.002
903-1005	180- 1	0.0	-10.83	-3.74	-4.55	-.01	.01	1.31	-.39	-.05		.01	.01	.025
		10.6	-10.83	-2.99	-2.99	-.01	.01	1.31	-.39	-.04		.01	.01	.025
		21.1	-10.83	-2.25	-1.43	-.01	.01	1.31	-.39	-.02		.01	.01	.024
		31.7	-10.83	-1.50	.13	-.01	.01	1.31	-.39	-.01		.01	.01	.024
		42.2	-10.83	-.75	1.69	-.01	.01	1.31	-.39	-.02		.01	.01	.024
904- 905	109- 1	0.0	.12	.72	.34	.00	-.00	-.17	.01	.03		.00	.00	.002
		6.9	.12	.54	.08	.00	-.00	-.17	.01	.02		.00	.00	.001
		13.7	.12	.37	-.19	.00	-.00	-.17	.01	.01		.00	.00	.001
		20.6	.12	.20	-.45	.00	-.00	-.17	.01	.02		.00	.00	.001
		27.4	.12	.03	-.72	.00	-.00	-.17	.01	.02		.00	.00	.001
904- 906	169- 1	0.0	-3.90	-.58	-6.19	-.04	.01	.63	-.16	-.07		.01	.01	.015
		6.9	-3.90	.61	-2.65	-.04	.01	.63	-.16	-.03		.01	.01	.013
		13.7	-3.90	1.79	.94	-.04	.01	.63	-.16	-.02		.01	.01	.013
		20.6	-3.90	2.98	4.50	-.04	.01	.63	-.16	-.06		.01	.01	.014
		27.4	-3.90	4.17	8.06	-.04	.01	.63	-.16	-.10		.01	.01	.016
905- 906	169- 1	0.0	4.73	-.11	-2.64	-.03	.02	-.14	.19	.03		.00	.00	.010
		6.9	4.73	1.57	-.42	-.03	.02	-.14	.19	.02		.00	.00	.010
		13.7	4.73	3.25	1.79	-.03	.02	-.14	.19	.04		.00	.00	.011
		20.6	4.73	4.93	4.01	-.03	.02	-.14	.19	.07		.00	.00	.012
		27.4	4.73	6.61	6.23	-.03	.02	-.14	.19	.10		.00	.00	.013

LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /---	BENDING STRESS Y	BENDING STRESS Z KSI	Y SHEAR STRESS	Z SHEAR STRESS ---/	COMB. UNITY CHECK
906-1004	180- 1	0.0	6.44	2.43	-3.08	-.01	-.00	.51	.23	.03		.00	.00	.012
		10.6	6.44	1.68	-1.95	-.01	-.00	.51	.23	.02		.00	.00	.012
		21.1	6.44	1.34	-.81	-.01	-.00	.51	.23	.01		.00	.00	.011
		31.7	6.44	.80	.32	-.01	-.00	.51	.23	.01		.00	.00	.011
		42.2	6.44	.25	1.45	-.01	-.00	.51	.23	.01		.00	.00	.011
906-1005	180- 1	0.0	10.88	-.28	-3.38	-.01	.01	.36	.40	.03		.00	.00	.020
		10.6	10.88	.99	-2.38	-.01	.01	.36	.40	.02		.00	.00	.019
		21.1	10.88	2.26	-1.39	-.01	.01	.36	.40	.02		.00	.00	.019
		31.7	10.88	3.53	-.40	-.01	.01	.36	.40	.03		.00	.00	.020
		42.2	10.88	4.80	.60	-.01	.01	.36	.40	.04		.00	.00	.020
906-1006	JL9- 1	0.0	1.25	-33.49	9.50	-.25	.48	6.39	.02	.04		.02	.02	.003
		8.1	1.21	1.84	25.50	-.08	.24	6.39	.02	.03		.01	.01	.002
		16.2	1.18	14.11	26.01	.07	.02	6.39	.02	.04		.01	.01	.002
		24.3	1.15	6.93	14.69	.16	-.16	6.39	.02	.02		.01	.01	.002
		32.4	1.12	-16.10	-4.81	.24	-.32	6.39	.02	.02		.02	.02	.002
1010- 910	P3- 1	0.0	1.23	35.39	224.35	.59	-.19	-5.57	.00	.09		.01	.01	.004
		8.1	1.23	16.61	166.69	.59	-.19	-5.57	.00	.07		.01	.01	.003
		16.2	1.23	-2.17	109.03	.59	-.19	-5.57	.00	.05		.01	.01	.002
		24.3	1.23	-20.95	51.38	.59	-.19	-5.57	.00	.02		.01	.01	.001
		32.4	1.23	-39.73	-6.28	.59	-.19	-5.57	.00	.02		.01	.01	.001
1011- 911	P3- 1	0.0	38.55	-229.01	-142.79	-.55	.84	8.89	.15	.11		.01	.01	.012
		8.1	38.55	-147.24	-88.98	-.55	.84	8.89	.15	.07		.01	.01	.010
		16.2	38.55	-65.48	-35.17	-.55	.84	8.89	.15	.03		.01	.01	.006
		24.3	38.55	16.29	18.64	-.55	.84	8.89	.15	.01		.01	.01	.008
		32.4	38.55	98.05	72.45	-.55	.84	8.89	.15	.05		.01	.01	.009
1012- 912	P3- 1	0.0	-39.46	198.75	-27.94	.10	-.68	9.80	-.16	-.08		.01	.01	.011
		8.1	-39.46	132.60	-37.77	.10	-.68	9.80	-.16	-.06		.01	.01	.010
		16.2	-39.46	66.45	-47.60	.10	-.68	9.80	-.16	-.03		.01	.01	.009
		24.3	-39.46	.30	-57.43	.10	-.68	9.80	-.16	-.02		.01	.01	.009
		32.4	-39.46	-65.85	-67.27	.10	-.68	9.80	-.16	-.04		.01	.01	.009
1001-1002	200- 1	0.0	-7.75	8.52	6.14	-.05	-.03	-1.68	-.20	-.06		.01	.01	.017
		8.0	-7.75	5.57	7.97	.01	-.03	-1.68	-.20	-.05		.01	.01	.017
		16.0	-7.75	2.61	5.95	.03	-.03	-1.68	-.20	-.04		.01	.01	.016
		24.0	-7.75	-.34	3.29	.03	-.03	-1.68	-.20	-.02		.01	.01	.015
		32.0	-7.75	-3.29	.65	.03	-.03	-1.68	-.20	-.02		.01	.01	.015
1001-1004	200- 1	0.0	7.29	-9.52	9.68	.02	.03	-.29	.19	.08		.00	.00	.012
		8.0	7.29	-6.98	7.31	.02	.03	-.29	.19	.06		.00	.00	.011
		16.0	7.29	-4.44	4.93	.02	.03	-.29	.19	.04		.00	.00	.010
		24.0	7.29	-1.91	2.56	.02	.03	-.29	.19	.02		.00	.00	.010
		32.0	7.29	.65	.18	.02	.03	-.29	.19	.00		.00	.00	.009

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 1

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y	Z ---KSI---	Y SHEAR STRESS	Z SHEAR STRESS -------/	COMB. UNITY CHECK
1002-1003	200- 1	0.0	-.14	-.23	-.47	-.01	-.01	-.95	-.00	-.00		.00	.00	.000
		8.0	-.14	-1.44	.96	-.01	-.01	-.95	-.00	-.01		.00	.00	.001
		16.0	-.14	-2.65	2.40	-.01	-.01	-.95	-.00	-.02		.00	.00	.001
		24.0	-.14	-3.86	3.83	-.01	-.01	-.95	-.00	-.03		.00	.00	.002
		32.0	-.14	-5.07	5.26	-.01	-.01	-.95	-.00	-.04		.00	.00	.002
1002-1004	140- 1	0.0	-.02	-3.04	-.40	-.00	.02	.81	-.00	-.06		.01	.01	.002
		8.0	-.02	-1.46	-.24	-.00	.02	.81	-.00	-.03		.01	.01	.001
		16.0	-.02	.12	-.08	-.00	.02	.81	-.00	-.00		.01	.01	.000
		24.0	-.02	1.70	.06	-.00	.02	.81	-.00	-.03		.01	.01	.001
		32.0	-.02	3.28	.25	-.00	.02	.81	-.00	-.06		.01	.01	.003
1002-1005	140- 1	0.0	-.06	-3.29	-.14	.00	.01	-.28	-.00	-.06		.00	.00	.003
		8.0	-.06	-2.13	-.16	.00	.01	-.28	-.00	-.04		.00	.00	.002
		16.0	-.06	-.97	-.19	.00	.01	-.28	-.00	-.02		.00	.00	.001
		24.0	-.06	.20	-.21	.00	.01	-.28	-.00	-.01		.00	.00	.000
		32.0	-.06	1.36	-.23	.00	.01	-.28	-.00	-.03		.00	.00	.001
1003-1005	200- 1	0.0	7.87	-13.14	-6.87	-.02	.05	.22	.21	.08		.00	.00	.013
		8.0	7.87	-8.60	-5.08	-.02	.05	.22	.21	.06		.00	.00	.012
		16.0	7.87	-4.06	-3.29	-.02	.05	.22	.21	.03		.00	.00	.011
		24.0	7.87	.48	-1.49	-.02	.05	.22	.21	.01		.00	.00	.010
		32.0	7.87	5.02	.30	-.02	.05	.22	.21	.03		.00	.00	.011
1004-1005	140- 1	0.0	.07	1.69	.16	.00	-.00	-.49	.00	.03		.01	.01	.002
		8.0	.07	1.23	.03	.00	-.00	-.49	.00	.02		.01	.01	.001
		16.0	.07	.76	-.11	.00	-.00	-.49	.00	.01		.01	.01	.001
		24.0	.07	.30	-.24	.00	-.00	-.49	.00	.01		.01	.01	.001
		32.0	.07	-.17	-.38	.00	-.00	-.49	.00	.01		.01	.01	.001
1004-1006	200- 1	0.0	-1.11	-2.45	1.14	-.00	.02	.81	-.03	-.02		.00	.00	.003
		8.0	-1.11	-.18	1.46	-.00	.02	.81	-.03	-.01		.00	.00	.002
		16.0	-1.11	2.07	1.78	-.00	.02	.81	-.03	-.02		.00	.00	.003
		24.0	-1.11	4.32	2.10	-.00	.02	.81	-.03	-.03		.00	.00	.003
		32.0	-1.11	6.57	2.42	-.00	.02	.81	-.03	-.04		.00	.00	.004
1005-1006	200- 1	0.0	-6.30	-.15	-.08	-.01	.03	.34	-.17	-.00		.00	.00	.012
		8.0	-6.30	3.07	1.10	-.01	.03	.34	-.17	-.02		.00	.00	.012
		16.0	-6.30	6.26	2.29	-.01	.03	.34	-.17	-.04		.00	.00	.013
		24.0	-6.30	9.46	3.48	-.01	.03	.34	-.17	-.06		.00	.00	.014
		32.0	-6.30	12.66	4.67	-.01	.03	.34	-.17	-.08		.00	.00	.015

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FY KIPS	FORCE----/ FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING Y -------	STRESS Z KSI-------	Y SHEAR STRESS -------	Z SHEAR STRESS -------/	COMB. UNITY CHECK
101- 102	W18- 1	0.0	.00	-.01	-.16	-.00	.00	-.00	.00	-.00	-.01	.00	.00	.001
		3.6	.00	-.01	-.10	-.00	.00	-.00	.00	-.00	-.01	.00	.00	.000
		7.3	.00	-.00	-.05	-.00	.00	-.00	.00	-.00	-.00	.00	.00	.000
		10.9	.00	.00	.01	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		14.5	.00	.01	.06	-.00	.00	-.00	.00	.00	.01	.00	.00	.000
101- 104	W18- 1	0.0	.00	-.02	-.17	-.00	.00	-.00	.00	-.00	-.02	.00	.00	.001
		3.6	.00	-.02	-.11	-.00	.00	-.00	.00	-.00	-.01	.00	.00	.000
		7.2	.00	-.01	-.04	-.00	.00	-.00	.00	-.00	-.00	.00	.00	.000
		10.9	.00	-.00	.02	-.00	.00	-.00	.00	-.00	.00	.00	.00	.000
		14.5	.00	.00	.08	-.00	.00	-.00	.00	.00	.01	.00	.00	.000
101- 201	DKL- 1	0.0	.00	.02	-.03	-.00	-.00	-.33	.00	.00		.00	.00	.000
		3.8	.00	-.16	.13	-.00	-.00	-.33	.00	.00		.00	.00	.000
		7.5	.00	-.34	.28	-.00	-.00	-.33	.00	.00		.00	.00	.000
		11.3	.00	-.52	.44	-.00	-.00	-.33	.00	.00		.00	.00	.000
		15.0	.00	-.70	.59	-.00	-.00	-.33	.00	.00		.00	.00	.000
102- 103	W18- 1	0.0	.00	.01	.05	.00	.00	-.00	.00	.00	.00	.00	.00	.000
		3.6	.00	.01	.02	.00	.00	-.00	.00	.00	.00	.00	.00	.000
		7.3	.00	.02	-.01	.00	.00	-.00	.00	.00	-.00	.00	.00	.000
		10.9	.00	.03	-.04	.00	.00	-.00	.00	.00	-.00	.00	.00	.000
		14.5	.00	.03	-.07	.00	.00	-.00	.00	.00	-.01	.00	.00	.000
102- 104	W08- 1	0.0	-.00	-.00	.01	.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		3.6	-.00	-.00	.01	.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		7.2	-.00	-.00	.00	.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		10.9	-.00	-.00	-.00	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
		14.5	-.00	-.00	-.01	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
102- 105	W08- 1	0.0	.00	.00	.00	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		3.6	.00	.00	.00	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		7.2	.00	.00	.01	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		10.9	.00	.00	.01	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		14.5	.00	.00	.01	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
103- 105	W18- 1	0.0	-.00	.06	.04	.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		3.6	-.00	.04	.03	.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		7.2	-.00	.02	.02	.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		10.9	-.00	.01	.02	.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		14.5	-.00	-.01	.01	.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
103- 203	DKL- 1	0.0	-.00	-.05	-.06	.00	.00	.11	-.00	-.00		.00	.00	.000
		3.8	-.00	.01	-.07	.00	.00	.11	-.00	-.00		.00	.00	.000
		7.5	-.00	.08	-.08	.00	.00	.11	-.00	-.00		.00	.00	.000
		11.3	-.00	.14	-.09	.00	.00	.11	-.00	-.00		.00	.00	.000
		15.0	-.00	.20	-.09	.00	.00	.11	-.00	-.00		.00	.00	.000

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	Z ------KSI------	Y SHEAR STRESS	Z SHEAR STRESS ------/	COMB. UNITY CHECK
104- 105	W08- 1	0.0	-.00	.00	-.01	-.00	-.00	.00	-.00	.00	-.00	.00	.00	.000
		3.6	-.00	.00	-.00	-.00	-.00	.00	-.00	.00	-.00	.00	.00	.000
		7.3	-.00	.00	.00	-.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		10.9	-.00	-.00	.01	-.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		14.5	-.00	-.00	.01	-.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
104- 106	W18- 1	0.0	.00	.00	.07	.00	.00	-.00	.00	.00	.01	.00	.00	.000
		3.6	.00	.01	.02	.00	.00	-.00	.00	.00	.00	.00	.00	.000
		7.3	.00	.02	-.03	.00	.00	-.00	.00	.00	-.00	.00	.00	.000
		10.9	.00	.02	-.09	.00	.00	-.00	.00	.00	-.01	.00	.00	.000
		14.5	.00	.03	-.14	.00	.00	-.00	.00	.00	-.01	.00	.00	.001
105- 106	W18- 1	0.0	.00	-.01	.03	.00	-.00	-.00	.00	-.00	.00	.00	.00	.000
		3.6	.00	-.02	-.01	.00	-.00	-.00	.00	-.00	-.00	.00	.00	.000
		7.3	.00	-.04	-.04	.00	-.00	-.00	.00	-.00	-.00	.00	.00	.000
		10.9	.00	-.05	-.08	.00	-.00	-.00	.00	-.00	-.01	.00	.00	.000
		14.5	.00	-.07	-.12	.00	-.00	-.00	.00	-.00	-.01	.00	.00	.001
106- 206	UKL- 1	0.0	.00	-.06	-.08	-.00	-.00	.45	.00	.00		.00	.00	.000
		3.8	.00	-.17	-.06	-.00	-.00	.45	.00	.00		.00	.00	.000
		7.5	.00	-.28	-.04	-.00	-.00	.45	.00	.00		.00	.00	.000
		11.3	.00	-.40	-.02	-.00	-.00	.45	.00	.00		.00	.00	.000
		15.0	.00	-.51	-.00	-.00	-.00	.45	.00	.00		.00	.00	.000
201- 202	W18- 1	0.0	-.05	.03	-.17	-.00	-.00	.00	-.00	.00	-.02	.00	.00	.001
		3.6	-.05	.03	-.11	-.00	-.00	.00	-.00	.00	-.01	.00	.00	.001
		7.3	-.05	.03	-.05	-.00	-.00	.00	-.00	.00	-.00	.00	.00	.000
		10.9	-.05	.03	.01	-.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		14.5	-.05	.02	.07	-.00	-.00	.00	-.00	.00	.01	.00	.00	.000
201- 204	W18- 1	0.0	-.02	.07	-.16	-.00	-.00	-.00	-.00	.00	-.02	.00	.00	.001
		3.6	-.02	.06	-.11	-.00	-.00	-.00	-.00	.00	-.01	.00	.00	.001
		7.2	-.02	.04	-.05	-.00	-.00	-.00	-.00	.00	-.00	.00	.00	.000
		10.9	-.02	.03	.02	-.00	-.00	-.00	-.00	.00	.00	.00	.00	.000
		14.5	-.02	.01	.08	-.00	-.00	-.00	-.00	.00	.01	.00	.00	.000
201- 301	UKL- 1	0.0	-.01	-.64	.69	.04	.01	-1.54	-.00	-.00		.00	.00	.000
		3.8	-.01	-.09	-1.32	.04	.01	-1.54	-.00	-.00		.00	.00	.000
		7.5	-.01	.45	-3.32	.04	.01	-1.54	-.00	-.01		.00	.00	.000
		11.3	-.01	.99	-5.33	.04	.01	-1.54	-.00	-.01		.00	.00	.000
		15.0	-.01	1.54	-7.34	.04	.01	-1.54	-.00	-.01		.00	.00	.000
201- 303	120- 1	0.0	.01	.09	-.49	-.00	-.00	.05	.00	.01		.00	.00	.000
		8.2	.01	.03	-.37	-.00	-.00	.05	.00	.01		.00	.00	.000
		16.3	.01	-.03	-.25	-.00	-.00	.05	.00	.00		.00	.00	.000
		24.5	.01	-.09	-.13	-.00	-.00	.05	.00	.00		.00	.00	.000
		32.6	.01	-.14	-.01	-.00	-.00	.05	.00	.00		.00	.00	.000

LOAD CONDITION NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
202- 203	W18- 1	0.0	-.05	.02	.06	.00	-.00	-.00	-.00	.00	.01	.00	.00	.000
		3.6	-.05	.02	.02	.00	-.00	-.00	-.00	.00	.00	.00	.00	.000
		7.3	-.05	.02	-.01	.00	-.00	-.00	-.00	.00	-.00	.00	.00	.000
		10.9	-.05	.02	-.04	.00	-.00	-.00	-.00	.00	-.00	.00	.00	.000
		14.5	-.05	.02	-.07	.00	-.00	-.00	-.00	.00	-.01	.00	.00	.001
202- 204	W08- 1	0.0	-.00	-.00	.01	.00	-.00	-.00	-.00	-.00	.00	.00	.00	.000
		3.6	-.00	-.00	.01	.00	-.00	-.00	-.00	-.00	.00	.00	.00	.000
		7.2	-.00	-.00	.00	.00	-.00	-.00	-.00	-.00	.00	.00	.00	.000
		10.9	-.00	-.00	-.00	.00	-.00	-.00	-.00	-.00	-.00	.00	.00	.000
		14.5	-.00	-.00	-.01	.00	-.00	-.00	-.00	-.00	-.00	.00	.00	.000
202- 205	W08- 1	0.0	.00	.00	.00	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		3.6	.00	.00	.00	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		7.2	.00	.00	.01	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		10.9	.00	.00	.01	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		14.5	.00	.00	.01	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
203- 205	W18- 1	0.0	.04	.07	.05	.00	-.00	-.00	.00	.00	.00	.00	.00	.000
		3.6	.04	.05	.03	.00	-.00	-.00	.00	.00	.00	.00	.00	.000
		7.2	.04	.03	.02	.00	-.00	-.00	.00	.00	.00	.00	.00	.000
		10.9	.04	.00	.01	.00	-.00	-.00	.00	.00	.00	.00	.00	.000
		14.5	.04	-.02	.00	.00	-.00	-.00	.00	-.00	.00	.00	.00	.000
203- 303	DKL- 1	0.0	-.00	.33	-.36	-.03	-.04	.65	-.00	-.00		.00	.00	.000
		3.8	-.00	-1.55	.92	-.03	-.04	.65	-.00	-.00		.00	.00	.000
		7.5	-.00	-3.43	2.21	-.03	-.04	.65	-.00	-.01		.00	.00	.000
		11.3	-.00	-5.32	3.49	-.03	-.04	.65	-.00	-.01		.00	.00	.000
		15.0	-.00	-7.20	4.77	-.03	-.04	.65	-.00	-.01		.00	.00	.001
203- 306	12D- 1	0.0	.01	-.06	.50	.00	.00	.05	.00	.01		.00	.00	.000
		8.2	.01	-.01	.21	.00	.00	.05	.00	.00		.00	.00	.000
		16.3	.01	.04	-.09	.00	.00	.05	.00	.00		.00	.00	.000
		24.5	.01	.09	-.38	.00	.00	.05	.00	.01		.00	.00	.000
		32.6	.01	.14	-.67	.00	.00	.05	.00	.01		.00	.00	.001
204- 205	W08- 1	0.0	-.00	.00	-.00	-.00	-.00	.00	-.00	.00	-.00	.00	.00	.000
		3.6	-.00	.00	.00	-.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		7.3	-.00	.00	.01	-.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		10.9	-.00	-.00	.01	-.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		14.5	-.00	-.00	.02	-.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
204- 206	W18- 1	0.0	-.02	.01	.08	.00	-.00	-.00	-.00	.00	.01	.00	.00	.000
		3.6	-.02	-.00	.02	.00	-.00	-.00	-.00	-.00	.00	.00	.00	.000
		7.3	-.02	-.02	-.03	.00	-.00	-.00	-.00	-.00	-.00	.00	.00	.000
		10.9	-.02	-.03	-.09	.00	-.00	-.00	-.00	-.00	-.01	.00	.00	.000
		14.5	-.02	-.05	-.14	.00	-.00	-.00	-.00	-.00	-.01	.00	.00	.001

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
306- 406	DKL- 1	0.0	.00	4.84	4.07	.05	-.06	2.61	.00	.01		.00	.00	.000
		7.1	.00	-.50	.21	.05	-.06	2.61	.00	.00		.00	.00	.000
		14.2	.00	-5.84	-3.65	.05	-.06	2.61	.00	.01		.00	.00	.000
		21.4	.00	-11.18	-7.51	.05	-.06	2.61	.00	.02		.00	.00	.001
		28.5	.00	-16.52	-11.36	.05	-.06	2.61	.00	.03		.00	.00	.001
401- 501	JL4- 1	0.0	.79	7.75	4.86	.55	.22	-9.73	.00	.00		.01	.01	.000
		1.1	.79	10.73	-2.61	.55	.22	-9.73	.00	.00		.01	.01	.000
		2.3	.79	13.70	-10.07	.55	.22	-9.73	.00	.01		.01	.01	.000
		3.4	.79	16.68	-17.54	.55	.22	-9.73	.00	.01		.01	.01	.001
		4.6	.79	19.65	-25.01	.55	.22	-9.73	.00	.01		.01	.01	.001
401- 510	P1- 1	0.0	-.75	11.27	-13.84	-.51	-.14	4.07	-.00	-.01		.01	.01	.001
		1.1	-.75	9.31	-6.85	-.51	-.14	4.07	-.00	-.01		.01	.01	.000
		2.3	-.75	7.35	.14	-.51	-.14	4.07	-.00	-.00		.01	.01	.000
		3.4	-.75	5.38	7.14	-.51	-.14	4.07	-.00	-.00		.01	.01	.000
		4.6	-.75	3.42	14.13	-.51	-.14	4.07	-.00	-.01		.01	.01	.000
403- 503	JL4- 1	0.0	28.19	15.88	5.34	-.29	-.06	10.14	.11	.01		.00	.00	.005
		1.1	28.19	15.01	9.27	-.29	-.06	10.14	.11	.01		.00	.00	.005
		2.3	28.19	14.14	13.19	-.29	-.06	10.14	.11	.01		.00	.00	.005
		3.4	28.19	13.28	17.12	-.29	-.06	10.14	.11	.01		.00	.00	.005
		4.6	28.19	12.41	21.04	-.29	-.06	10.14	.11	.01		.00	.00	.005
403- 511	P1- 1	0.0	-28.21	-8.29	18.19	.20	.06	-5.19	-.13	-.01		.00	.00	.006
		1.1	-28.21	-7.51	15.40	.20	.06	-5.19	-.13	-.01		.00	.00	.006
		2.3	-28.21	-6.72	12.60	.20	.06	-5.19	-.13	-.01		.00	.00	.006
		3.4	-28.21	-5.94	9.80	.20	.06	-5.19	-.13	-.01		.00	.00	.006
		4.6	-28.21	-5.15	7.01	.20	.06	-5.19	-.13	-.00		.00	.00	.006
406- 506	JL4- 1	0.0	-28.01	-13.93	-8.07	-.25	.28	7.47	-.11	-.01		.00	.00	.005
		1.1	-28.01	-10.05	-4.68	-.25	.28	7.47	-.11	-.00		.00	.00	.005
		2.3	-28.01	-6.17	-1.29	-.25	.28	7.47	-.11	-.00		.00	.00	.005
		3.4	-28.01	-2.30	2.11	-.25	.28	7.47	-.11	-.00		.00	.00	.005
		4.6	-28.01	1.58	5.50	-.25	.28	7.47	-.11	-.00		.00	.00	.005
406- 512	P1- 1	0.0	28.00	-2.58	-3.57	.29	-.34	-6.76	.13	.00		.01	.01	.006
		1.1	28.00	-7.19	-7.59	.29	-.34	-6.76	.13	.00		.01	.01	.006
		2.3	28.00	-11.79	-11.61	.29	-.34	-6.76	.13	.01		.01	.01	.006
		3.4	28.00	-16.39	-15.63	.29	-.34	-6.76	.13	.01		.01	.01	.006
		4.6	28.00	-20.98	-19.64	.29	-.34	-6.76	.13	.01		.01	.01	.006
501- 502	165- 1	0.0	-.70	1.18	-9.04	-.07	-.00	.24	-.02	-.08		.01	.01	.005
		3.8	-.70	1.10	-5.90	-.07	-.00	.24	-.02	-.05		.01	.01	.004
		7.6	-.70	1.03	-2.76	-.07	-.00	.24	-.02	-.03		.01	.01	.002
		11.4	-.70	.96	.39	-.07	-.00	.24	-.02	-.01		.01	.01	.002
		15.1	-.70	.88	3.53	-.07	-.00	.24	-.02	-.03		.01	.01	.003

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y	Z -------KSI-------	Y SHEAR STRESS	Z SHEAR STRESS -------/	COMB. UNITY CHECK
501- 504	165- 1	0.0	1.19	.81	-9.38	-.08	-.00	-.67	.04	.08		.01	.01	.005
		3.8	1.19	.63	-5.89	-.08	-.00	-.67	.04	.05		.01	.01	.004
		7.6	1.19	.44	-2.39	-.08	-.00	-.67	.04	.02		.01	.01	.003
		11.4	1.19	.26	1.10	-.08	-.00	-.67	.04	.01		.01	.01	.002
		15.1	1.19	.07	4.60	-.08	-.00	-.67	.04	.04		.01	.01	.004
501- 601	JLS- 1	0.0	1.46	21.97	-16.53	-.93	-.38	-20.06	.01	.02		.02	.02	.001
		1.5	1.46	14.97	.45	-.93	-.38	-20.06	.01	.01		.02	.02	.001
		3.0	1.46	7.96	17.42	-.93	-.38	-20.06	.01	.01		.02	.02	.001
		4.6	1.46	.96	34.40	-.93	-.38	-20.06	.01	.02		.02	.02	.001
		6.1	1.46	-6.05	51.37	-.93	-.38	-20.06	.01	.03		.02	.02	.002
501- 622	200- 1	0.0	-1.34	-2.35	9.78	.09	.04	.44	-.04	-.06		.01	.01	.004
		5.1	-1.34	.07	4.10	.09	.04	.44	-.04	-.02		.01	.01	.003
		10.2	-1.34	2.49	-1.59	.09	.04	.44	-.04	-.02		.01	.01	.002
		15.3	-1.34	4.91	-7.27	.09	.04	.44	-.04	-.05		.01	.01	.004
		20.4	-1.34	7.33	-12.89	.08	.04	.44	-.04	-.06		.01	.01	.005
502- 503	165- 1	0.0	-.81	.83	2.83	.03	.00	.08	-.03	-.03		.00	.00	.003
		3.8	-.81	.89	1.42	.03	.00	.08	-.03	-.01		.00	.00	.002
		7.6	-.81	.95	.01	.03	.00	.08	-.03	-.01		.00	.00	.002
		11.4	-.81	1.02	-1.40	.03	.00	.08	-.03	-.02		.00	.00	.002
		15.1	-.81	1.08	-2.81	.03	.00	.08	-.03	-.03		.00	.00	.003
502- 504	105- 1	0.0	-.04	.09	.55	.01	-.00	.03	-.00	-.02		.00	.00	.001
		3.8	-.04	.02	.31	.01	-.00	.03	-.00	-.01		.00	.00	.001
		7.6	-.04	-.05	.07	.01	-.00	.03	-.00	-.00		.00	.00	.000
		11.4	-.04	-.11	-.18	.01	-.00	.03	-.00	-.01		.00	.00	.000
		15.2	-.04	-.18	-.42	.01	-.00	.03	-.00	-.02		.00	.00	.001
502- 505	105- 1	0.0	.15	.15	.15	-.00	-.00	-.06	.01	.01		.00	.00	.001
		3.8	.15	.09	.19	-.00	-.00	-.06	.01	.01		.00	.00	.001
		7.6	.15	.02	.22	-.00	-.00	-.06	.01	.01		.00	.00	.001
		11.4	.15	-.05	.26	-.00	-.00	-.06	.01	.01		.00	.00	.001
		15.2	.15	-.12	.29	-.00	-.00	-.06	.01	.01		.00	.00	.001
503- 505	165- 1	0.0	-.62	.48	1.59	.00	-.00	.47	-.02	-.01		.00	.00	.002
		3.8	-.62	.28	1.41	.00	-.00	.47	-.02	-.01		.00	.00	.002
		7.6	-.62	.07	1.23	.00	-.00	.47	-.02	-.01		.00	.00	.002
		11.4	-.62	-.13	1.04	.00	-.00	.47	-.02	-.01		.00	.00	.002
		15.1	-.62	-.34	.86	.00	-.00	.47	-.02	-.01		.00	.00	.001
503- 603	JLS- 1	0.0	25.17	-5.50	17.26	.65	.40	19.64	.18	.01		.02	.02	.009
		1.5	25.17	1.85	5.35	.65	.40	19.64	.18	.00		.02	.02	.008
		3.0	25.17	9.21	-6.57	.65	.40	19.64	.18	.01		.02	.02	.008
		4.6	25.17	16.56	-18.48	.65	.40	19.64	.18	.02		.02	.02	.009
		6.1	25.17	23.91	-30.40	.65	.40	19.64	.18	.02		.02	.02	.009

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LOAD CONDITION NO. 2

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U.S. NAVY - ACMN PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END PT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
503- 625	200- 1	0.0	2.72	12.97	7.71	.04	-.11	1.13	.07	.08		.01	.01	.007
		5.1	2.72	6.39	5.32	.04	-.11	1.13	.07	.05		.01	.01	.005
		10.1	2.72	-.19	2.92	.04	-.11	1.13	.07	.02		.01	.01	.004
		15.2	2.72	-6.77	.52	.04	-.11	1.13	.07	.04		.01	.01	.005
		20.3	2.71	-13.15	-1.87	.04	-.09	1.13	.07	.07		.01	.01	.006
504- 505	105- 1	0.0	-.11	.11	-.14	-.00	-.00	.03	-.01	-.01		.00	.00	.001
		3.8	-.11	.10	.01	-.00	-.00	.03	-.01	-.00		.00	.00	.001
		7.6	-.11	.09	.16	-.00	-.00	.03	-.01	-.01		.00	.00	.001
		11.4	-.11	.08	.31	-.00	-.00	.03	-.01	-.01		.00	.00	.001
		15.2	-.11	.07	.46	-.00	-.00	.03	-.01	-.02		.00	.00	.001
504- 506	165- 1	0.0	1.23	-.13	4.33	.06	-.01	-.73	.04	.04		.01	.01	.004
		3.8	1.23	-.37	1.58	.06	-.01	-.73	.04	.01		.01	.01	.002
		7.6	1.23	-.61	-1.16	.06	-.01	-.73	.04	.01		.01	.01	.002
		11.4	1.23	-.85	-3.91	.06	-.01	-.73	.04	.04		.01	.01	.003
		15.2	1.23	-1.09	-6.65	.06	-.01	-.73	.04	.06		.01	.01	.004
505- 506	165- 1	0.0	-.48	-.46	1.61	.04	-.01	.48	-.02	-.01		.00	.00	.002
		3.8	-.48	-.75	-.21	.04	-.01	.48	-.02	-.01		.00	.00	.001
		7.6	-.48	-1.03	-2.03	.04	-.01	.48	-.02	-.02		.00	.00	.002
		11.4	-.48	-1.32	-3.85	.04	-.01	.48	-.02	-.04		.00	.00	.002
		15.2	-.46	-1.60	-5.67	.04	-.01	.48	-.02	-.05		.00	.00	.003
506- 606	JLS- 1	0.0	-27.04	-7.25	-5.04	.14	-.39	3.99	-.19	-.01		.01	.01	.009
		1.5	-27.04	-14.38	-7.56	.14	-.39	3.99	-.19	-.01		.01	.01	.009
		3.0	-27.04	-21.51	-10.08	.14	-.39	3.99	-.19	-.01		.01	.01	.009
		4.6	-27.04	-28.64	-12.61	.14	-.39	3.99	-.19	-.02		.01	.01	.010
		6.1	-27.04	-35.77	-15.13	.14	-.39	3.99	-.19	-.02		.01	.01	.010
506- 624	200- 1	0.0	-1.78	.89	-18.42	-.14	-.01	-1.38	-.05	-.10		.01	.01	.007
		5.1	-1.78	.35	-9.97	-.14	-.01	-1.38	-.05	-.06		.01	.01	.005
		10.1	-1.78	-.24	-1.52	-.14	-.01	-1.38	-.05	-.01		.01	.01	.003
		15.2	-1.78	-.81	6.92	-.14	-.01	-1.38	-.05	-.04		.01	.01	.004
		20.2	-1.77	-1.18	14.85	-.11	.00	-1.38	-.05	-.08		.01	.01	.006
510- 710	P1- 1	0.0	-.76	3.33	14.15	-.57	-.17	4.07	-.00	-.01		.01	.01	.000
		6.3	-.76	-9.75	57.33	-.57	-.17	4.07	-.00	-.03		.01	.01	.001
		12.7	-.76	-22.82	100.52	-.57	-.17	4.07	-.00	-.05		.01	.01	.002
		19.0	-.76	-35.90	143.70	-.57	-.17	4.07	-.00	-.07		.01	.01	.003
		25.3	-.76	-48.98	186.88	-.57	-.17	4.07	-.00	-.09		.01	.01	.004
511- 711	P1- 1	0.0	-28.22	-5.11	7.04	.56	.52	-5.19	-.13	-.00		.01	.01	.006
		6.3	-28.22	34.35	-35.34	.56	.52	-5.19	-.13	-.02		.01	.01	.007
		12.7	-28.22	73.85	-77.71	.56	.52	-5.19	-.13	-.05		.01	.01	.008
		19.0	-28.22	113.37	-120.09	.56	.52	-5.19	-.13	-.08		.01	.01	.009
		25.3	-28.22	152.86	-162.46	.56	.52	-5.19	-.13	-.10		.01	.01	.011

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
512- 712	P1- 1	0.0	28.00	-20.98	-19.64	-.06	-.28	-6.77	.13	.01		.00	.00	.006
		6.3	28.00	-42.53	-15.02	-.06	-.28	-6.77	.13	.02		.00	.00	.007
		12.7	28.00	-64.07	-10.40	-.06	-.28	-6.77	.13	.03		.00	.00	.007
		19.0	28.00	-85.61	-5.78	-.06	-.28	-6.77	.13	.04		.00	.00	.008
		25.3	28.00	-107.15	-1.16	-.06	-.28	-6.77	.13	.05		.00	.00	.008
601- 621	JL6- 1	0.0	1.39	-7.43	49.74	-.78	-.27	-26.31	.01	.03		.02	.02	.002
		1.5	1.39	-12.27	64.03	-.78	-.27	-26.31	.01	.04		.02	.02	.002
		3.0	1.39	-17.12	78.31	-.78	-.27	-26.31	.01	.05		.02	.02	.003
		4.6	1.39	-21.96	92.60	-.78	-.27	-26.31	.01	.06		.02	.02	.003
		6.1	1.39	-26.79	106.65	-.73	-.26	-26.31	.01	.07		.02	.02	.003
603- 623	JL6- 1	0.0	25.06	21.96	-26.32	.57	.46	22.35	.18	.02		.02	.02	.009
		1.5	25.06	30.36	-36.79	.57	.46	22.35	.18	.03		.02	.02	.009
		3.0	25.06	38.75	-47.25	.57	.46	22.35	.18	.04		.02	.02	.010
		4.6	25.06	47.15	-57.72	.57	.46	22.35	.18	.05		.02	.02	.010
		6.1	25.05	55.41	-68.10	.60	.50	22.35	.18	.06		.02	.02	.010
606- 626	JL6- 1	0.0	-27.04	-35.77	-15.12	.14	-.48	4.04	-.19	-.02		.01	.01	.010
		1.5	-27.04	-44.49	-17.65	.14	-.48	4.04	-.19	-.03		.01	.01	.010
		3.0	-27.04	-53.22	-20.17	.14	-.48	4.04	-.19	-.04		.01	.01	.010
		4.6	-27.05	-61.75	-22.58	.11	-.43	4.04	-.19	-.04		.01	.01	.011
		6.1	-27.09	-68.92	-24.18	.04	-.30	4.04	-.19	-.05		.01	.01	.011
621- 651	JL6- 1	0.0	1.40	-26.29	106.74	-.73	-.26	-26.44	.01	.07		.02	.02	.003
		1.5	1.40	-30.99	117.99	-.50	-.26	-26.44	.01	.08		.02	.02	.004
		3.0	1.40	-35.62	125.19	-.29	-.25	-26.44	.01	.08		.01	.01	.004
		4.6	1.40	-40.23	128.53	-.08	-.25	-26.44	.01	.08		.01	.01	.004
		6.1	1.40	-44.77	128.13	.12	-.25	-26.44	.01	.09		.01	.01	.004
622- 703	20D- 1	0.0	-1.34	7.34	-12.88	.08	.02	.59	-.04	-.08		.01	.01	.005
		5.4	-1.31	7.35	-14.78	-.03	-.02	.59	-.03	-.09		.00	.00	.006
		10.9	-1.29	4.16	-9.59	-.13	-.08	.59	-.03	-.06		.01	.01	.004
		16.3	-1.30	-3.20	2.59	-.24	-.15	.59	-.03	-.02		.02	.02	.003
		21.8	-1.32	-15.72	21.66	-.34	-.23	.59	-.03	-.15		.02	.02	.008
623- 653	JL6- 1	0.0	25.06	55.66	-67.88	.55	.50	22.49	.18	.06		.02	.02	.010
		1.5	25.01	63.66	-76.97	.45	.36	22.49	.17	.06		.02	.02	.011
		3.0	24.95	68.92	-84.25	.35	.22	22.49	.17	.07		.01	.01	.011
		4.6	24.91	71.70	-89.82	.26	.09	22.49	.17	.07		.01	.01	.011
		6.1	24.86	72.07	-93.81	.18	-.05	22.49	.17	.07		.01	.01	.011
624- 701	20D- 1	0.0	-1.77	-1.18	14.85	-.11	.00	-1.38	-.05	-.08		.01	.01	.006
		5.5	-1.75	-.78	18.22	.01	.01	-1.38	-.05	-.10		.00	.00	.007
		11.0	-1.74	.20	13.57	.13	.02	-1.38	-.05	-.08		.01	.01	.006
		16.5	-1.73	1.76	.93	.25	.03	-1.38	-.05	-.01		.02	.02	.003
		21.9	-1.74	3.55	-18.86	.34	.02	-1.38	-.05	-.11		.02	.02	.007

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y	Z ----KSI----	Y SHEAR STRESS	Z SHEAR STRESS -----/	COMB. UNITY CHECK
625- 706	200- 1	0.0	2.71	-13.15	-1.88	.04	-.09	1.12	.07	.07		.01	.01	.006
		5.5	2.71	-14.91	-3.57	.01	.04	1.12	.07	.09		.01	.01	.007
		11.0	2.71	-8.75	-3.63	-.01	.15	1.12	.07	.05		.01	.01	.006
		16.4	2.73	4.68	-2.08	-.04	.26	1.12	.07	.03		.02	.02	.005
		21.9	2.75	24.59	1.10	-.06	.35	1.12	.07	.14		.02	.02	.009
626- 656	JL6- 1	0.0	-27.08	-68.77	-24.14	.06	-.29	4.00	-.19	-.05		.01	.01	.011
		1.5	-27.03	-72.78	-24.29	-.04	-.15	4.00	-.19	-.05		.00	.00	.011
		3.0	-26.97	-74.14	-22.65	-.14	-.00	4.00	-.19	-.05		.00	.00	.011
		4.6	-26.92	-72.87	-19.31	-.23	.14	4.00	-.19	-.05		.01	.01	.011
		6.1	-26.88	-69.07	-14.31	-.32	.28	4.00	-.19	-.04		.01	.01	.011
651- 701	JL6- 1	0.0	1.58	-44.26	127.89	1.10	-.05	-38.29	.01	.09		.03	.03	.004
		1.8	1.58	-45.44	102.17	1.32	-.06	-38.29	.01	.07		.03	.03	.003
		3.5	1.58	-46.70	71.71	1.54	-.06	-38.29	.01	.05		.03	.03	.003
		5.3	1.58	-48.06	36.56	1.76	-.07	-38.29	.01	.04		.04	.04	.002
		7.1	1.58	-49.56	-3.07	1.96	-.06	-38.29	.01	.03		.04	.04	.002
653- 703	JL6- 1	0.0	26.47	81.60	-102.69	-.51	-.30	25.78	.19	.08		.02	.02	.012
		1.8	26.47	73.10	-90.80	-.61	-.50	25.78	.19	.07		.02	.02	.012
		3.5	26.48	60.55	-76.83	-.71	-.68	25.78	.19	.06		.02	.02	.011
		5.3	26.48	44.03	-60.75	-.80	-.87	25.78	.19	.05		.02	.02	.011
		7.1	26.49	23.72	-42.67	-.89	-1.04	25.78	.19	.03		.03	.03	.010
656- 706	JL6- 1	0.0	-26.88	-69.07	-14.32	-.32	.29	3.99	-.19	-.04		.01	.01	.011
		1.8	-26.88	-60.87	-6.38	-.43	.48	3.99	-.19	-.04		.01	.01	.010
		3.5	-26.89	-48.62	3.82	-.53	.67	3.99	-.19	-.03		.01	.01	.010
		5.3	-26.90	-32.55	16.25	-.63	.84	3.99	-.19	-.02		.02	.02	.010
		7.1	-26.90	-12.77	30.77	-.73	1.01	3.99	-.19	-.02		.02	.02	.010
701- 702	137- 1	0.0	-2.86	1.30	-3.07	.04	-.02	.96	-.15	-.06		.01	.01	.012
		4.7	-2.86	.43	-4.26	-.00	-.02	.96	-.15	-.08		.01	.01	.013
		9.4	-2.86	-.45	-2.80	-.05	-.02	.96	-.15	-.05		.01	.01	.012
		14.1	-2.86	-1.33	1.29	-.10	-.02	.96	-.15	-.03		.02	.02	.011
		18.8	-2.86	-2.20	8.02	-.14	-.02	.96	-.15	-.15		.02	.02	.016
701- 704	137- 1	0.0	.36	13.27	-4.64	.01	-.13	.74	.02	.25		.02	.02	.011
		4.7	.34	6.02	-4.31	-.02	-.12	.74	.02	.13		.02	.02	.006
		9.4	.33	-.56	-2.27	-.05	-.11	.74	.02	.04		.02	.02	.003
		14.1	.32	-5.83	.91	-.06	-.08	.74	.02	.10		.02	.02	.005
		18.8	.32	-9.12	4.67	-.07	-.04	.74	.02	.18		.01	.01	.008
701- 801	JL7- 1	0.0	-2.32	-14.69	16.99	-1.13	.11	-6.91	-.03	-.03		.04	.04	.003
		7.1	-2.33	-6.54	83.09	-.44	.08	-6.91	-.03	-.11		.02	.02	.006
		14.2	-2.33	-.77	93.27	.18	.06	-6.91	-.03	-.12		.01	.01	.007
		21.3	-2.33	4.75	54.74	.71	.08	-6.91	-.03	-.07		.02	.02	.005
		28.4	-2.32	12.17	-25.29	1.16	.09	-6.91	-.03	-.04		.04	.04	.003

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
701- 806	200- 1	0.0	4.51	25.91	25.76	.33	-.28	.68	.12	.20		.02	.02	.014
		12.5	4.49	-5.40	-10.65	.16	-.14	.68	.12	.07		.01	.01	.008
		25.1	4.46	-16.40	-21.70	-.01	-.01	.68	.12	.15		.00	.00	.012
		37.6	4.44	-7.09	-7.41	-.18	.13	.68	.12	.06		.01	.01	.008
		50.2	4.41	22.53	32.24	-.35	.26	.68	.12	.22		.02	.02	.015
702- 703	137- 1	0.0	-3.03	-.84	5.57	.12	.01	-1.06	-.16	-.10		.02	.02	.015
		4.7	-3.03	-.15	.11	.07	.01	-1.06	-.16	-.00		.02	.02	.011
		9.4	-3.03	.58	-2.72	.03	.01	-1.06	-.16	-.05		.01	.01	.013
		14.1	-3.03	1.29	-2.90	-.02	.01	-1.06	-.16	-.06		.01	.01	.013
		18.8	-3.03	2.00	-.45	-.07	.01	-1.06	-.16	-.04		.02	.02	.012
702- 704	107- 1	0.0	.07	2.38	-.23	-.00	-.02	.14	.01	.08		.01	.01	.004
		4.7	.07	1.09	-.22	-.00	-.02	.14	.01	.04		.01	.01	.002
		9.4	.07	-.20	-.21	-.00	-.02	.14	.01	.01		.01	.01	.001
		14.1	.07	-1.48	-.20	-.00	-.02	.14	.01	.05		.01	.01	.002
		18.8	.07	-2.00	-.19	-.00	.01	.14	.01	.07		.00	.00	.003
702- 705	107- 1	0.0	.28	.01	2.68	.08	-.01	.06	.02	.09		.01	.01	.005
		4.7	.25	-.29	-.67	.04	-.01	.06	.02	.02		.01	.01	.002
		9.4	.23	-.59	-1.73	-.00	-.01	.06	.02	.06		.00	.00	.003
		14.1	.21	-.88	-.51	-.04	-.01	.06	.02	.03		.01	.01	.002
		18.8	.18	-1.18	2.99	-.08	-.01	.06	.02	.11		.01	.01	.005
703- 705	137- 1	0.0	2.00	3.87	5.43	.04	-.03	.85	.10	.12		.01	.01	.010
		4.7	2.00	2.39	2.96	.04	-.03	.85	.10	.07		.01	.01	.008
		9.4	2.00	.92	.48	.04	-.03	.85	.10	.02		.01	.01	.006
		14.1	2.00	-.56	-1.99	.04	-.03	.85	.10	.04		.01	.01	.006
		18.8	2.00	-2.03	-4.46	.04	-.03	.85	.10	.09		.01	.01	.008
703- 801	200- 1	0.0	4.55	2.81	-26.92	-.34	-.01	-.34	.12	.15		.02	.02	.012
		12.5	4.54	1.33	7.89	-.14	-.01	-.34	.12	.04		.01	.01	.007
		25.1	4.54	-.91	18.45	-.01	-.02	-.34	.12	.10		.00	.00	.010
		37.6	4.53	-3.74	10.09	.12	-.02	-.34	.12	.06		.01	.01	.008
		50.2	4.52	-7.16	-17.11	.24	-.02	-.34	.12	.10		.01	.01	.010
703- 803	JL7- 1	0.0	23.47	20.65	-44.18	.38	.92	-8.17	.33	.06		.03	.03	.018
		7.1	23.45	73.92	-61.89	.04	.34	-8.17	.33	.12		.01	.01	.021
		14.2	23.44	81.59	-53.13	-.24	-.16	-8.17	.33	.12		.01	.01	.021
		21.3	23.43	48.22	-22.45	-.47	-.62	-8.17	.33	.07		.03	.03	.018
		28.4	23.44	-22.45	27.08	-.69	-1.03	-8.17	.33	.04		.04	.04	.017
704- 705	107- 1	0.0	-.22	-.01	4.00	.10	-.05	-.21	-.02	-.13		.02	.02	.007
		4.7	-.22	-1.57	-.20	.05	-.01	-.21	-.02	-.05		.01	.01	.003
		9.4	-.22	-1.15	-1.76	.00	.02	-.21	-.02	-.07		.01	.01	.004
		14.1	-.22	.59	-.69	-.04	.04	-.21	-.02	-.03		.01	.01	.002
		18.8	-.22	2.99	3.03	-.09	.04	-.21	-.02	-.14		.02	.02	.007

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	Z ---KSI---	Y SHEAR STRESS	Z SHEAR STRESS ------/	COMB. UNITY CHECK
704- 706	137- 1	0.0	.55	-10.05	.48	.01	.02	-.82	.03	.18		.01	.01	.009
		4.7	.55	-7.58	.06	.01	.07	-.82	.03	.13		.01	.01	.007
		9.4	.55	-2.46	-.36	.01	.11	-.82	.03	.04		.02	.02	.003
		14.1	.55	5.30	-.77	.01	.16	-.82	.03	.09		.02	.02	.005
		18.8	.55	15.70	-1.19	.01	.21	-.82	.03	.28		.03	.03	.013
705- 706	137- 1	0.0	2.35	-4.25	1.56	.02	.01	-.58	.12	.08		.01	.01	.009
		4.7	2.35	-3.41	.61	.02	.02	-.58	.12	.06		.01	.01	.008
		9.4	2.35	-1.90	-.35	.02	.04	-.58	.12	.03		.01	.01	.007
		14.1	2.35	.92	-1.30	.02	.07	-.58	.12	.03		.01	.01	.007
		18.8	2.35	5.73	-2.25	.02	.11	-.58	.12	.11		.02	.02	.010
706- 803	200- 1	0.0	-8.18	-10.12	6.01	.02	.06	.02	-.21	-.07		.00	.00	.016
		12.5	-8.18	-.37	2.99	.02	.06	.02	-.21	-.02		.00	.00	.014
		25.1	-8.16	8.79	-.03	.02	.05	.02	-.21	-.05		.00	.00	.015
		37.6	-8.11	10.13	-3.05	.02	-.04	.02	-.21	-.06		.00	.00	.015
		50.2	-8.04	-3.60	-6.07	.02	-.14	.02	-.21	-.04		.01	.01	.015
706- 806	JL7- 1	0.0	-21.49	16.70	32.77	.68	-1.11	12.62	-.30	-.05		.04	.04	.017
		7.1	-21.46	-52.10	-10.81	.35	-.52	12.62	-.30	-.07		.03	.03	.018
		14.2	-21.45	-74.99	-28.71	.08	-.03	12.62	-.30	-.10		.01	.01	.019
		21.3	-21.45	-58.12	-25.43	-.15	.41	12.62	-.30	-.08		.02	.02	.018
		28.4	-21.46	-5.98	-3.79	-.36	.80	12.62	-.30	-.01		.03	.03	.015
710- 810	P2- 1	0.0	-.76	-48.70	186.95	.20	.21	4.01	-.00	-.08		.00	.00	.004
		7.1	-.76	-31.20	170.26	.20	.21	4.01	-.00	-.07		.00	.00	.003
		14.2	-.76	-13.70	153.56	.20	.21	4.01	-.00	-.06		.00	.00	.003
		21.3	-.76	3.79	136.87	.20	.21	4.01	-.00	-.06		.00	.00	.003
		28.4	-.76	21.29	120.17	.20	.21	4.01	-.00	-.05		.00	.00	.002
711- 811	P2- 1	0.0	-28.21	153.10	-162.24	-.37	-.12	-5.09	-.11	-.09		.00	.00	.009
		7.1	-28.21	142.82	-130.44	-.37	-.12	-5.09	-.11	-.08		.00	.00	.009
		14.2	-28.21	132.54	-98.64	-.37	-.12	-5.09	-.11	-.07		.00	.00	.008
		21.3	-28.21	122.26	-66.84	-.37	-.12	-5.09	-.11	-.06		.00	.00	.008
		28.4	-28.21	111.98	-35.04	-.37	-.12	-5.09	-.11	-.05		.00	.00	.008
712- 812	P2- 1	0.0	28.00	-107.15	-1.16	.23	-.07	-6.77	.11	.04		.00	.00	.007
		7.1	28.00	-112.83	-20.90	.23	-.07	-6.77	.11	.05		.00	.00	.007
		14.2	28.00	-118.51	-40.63	.23	-.07	-6.77	.11	.05		.00	.00	.007
		21.3	28.00	-124.18	-60.37	.23	-.07	-6.77	.11	.06		.00	.00	.008
		28.4	28.00	-129.86	-80.11	.23	-.07	-6.77	.11	.06		.00	.00	.008
801- 802	148- 1	0.0	-.35	-1.61	-8.28	-.04	.00	.33	-.02	-.12		.01	.01	.006
		5.7	-.35	-1.28	-5.37	-.04	.00	.33	-.02	-.08		.01	.01	.005
		11.4	-.35	-.96	-2.46	-.04	.00	.33	-.02	-.04		.01	.01	.003
		17.1	-.35	-.63	.45	-.04	.00	.33	-.02	-.01		.01	.01	.002
		22.8	-.35	-.30	3.36	-.04	.00	.33	-.02	-.05		.01	.01	.003

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	Z ------KSI------	Y SHEAR STRESS	Z SHEAR STRESS ------/	COMB. UNITY CHECK
801- 804	14B- 1	0.0	2.14	1.94	-8.54	-.05	-.01	.65	.10	.13		.01	.01	.010
		5.7	2.14	1.41	-5.30	-.05	-.01	.65	.10	.08		.01	.01	.008
		11.4	2.14	.89	-2.06	-.05	-.01	.65	.10	.03		.01	.01	.006
		17.1	2.14	.36	1.18	-.05	-.01	.65	.10	.02		.01	.01	.005
		22.8	2.14	-.16	4.42	-.05	-.01	.65	.10	.06		.01	.01	.007
801- 901	JLB- 1	0.0	3.29	6.16	-17.90	-.75	-.00	11.13	.05	.02		.03	.03	.003
		8.1	3.29	5.90	33.79	-.32	-.01	11.13	.05	.04		.02	.02	.004
		16.2	3.29	4.40	47.15	.04	-.03	11.13	.05	.06		.01	.01	.005
		24.3	3.29	.66	25.26	.40	-.05	11.13	.05	.03		.02	.02	.004
		32.4	3.29	-3.63	-29.88	.72	-.04	11.13	.05	.04		.03	.03	.004
801- 903	20D- 1	0.0	-5.65	-3.27	23.68	.27	.02	1.07	-.15	-.13		.02	.02	.016
		14.9	-5.66	-.70	-12.07	.13	.01	1.07	-.15	-.07		.01	.01	.013
		29.8	-5.66	1.10	-21.22	-.02	.01	1.07	-.15	-.12		.00	.00	.015
		44.7	-5.67	2.14	-3.88	-.17	.00	1.07	-.15	-.02		.01	.01	.011
		59.6	-5.67	2.65	32.43	-.22	.00	1.07	-.15	-.18		.01	.01	.018
802- 803	14B- 1	0.0	-.42	-.33	2.40	.02	.01	-.75	-.02	-.03		.01	.01	.003
		5.7	-.42	.33	1.08	.02	.01	-.75	-.02	-.02		.01	.01	.002
		11.4	-.42	1.00	-.24	.02	.01	-.75	-.02	-.01		.01	.01	.002
		17.1	-.42	1.66	-1.55	.02	.01	-.75	-.02	-.03		.01	.01	.003
		22.8	-.42	2.32	-2.87	.02	.01	-.75	-.02	-.05		.01	.01	.004
802- 804	10B- 1	0.0	-.03	.53	.70	.00	-.00	-.26	-.00	-.03		.01	.01	.001
		5.7	-.03	.31	.42	.00	-.00	-.26	-.00	-.02		.01	.01	.001
		11.4	-.03	.10	.13	.00	-.00	-.26	-.00	-.01		.01	.01	.000
		17.1	-.03	-.11	-.15	.00	-.00	-.26	-.00	-.01		.01	.01	.000
		22.8	-.03	-.32	-.43	.00	-.00	-.26	-.00	-.02		.01	.01	.001
802- 805	10B- 1	0.0	.10	.46	.26	-.00	-.00	.19	.01	.02		.00	.00	.001
		5.7	.10	.34	.30	-.00	-.00	.19	.01	.02		.00	.00	.001
		11.4	.10	.22	.34	-.00	-.00	.19	.01	.01		.00	.00	.001
		17.1	.10	.09	.38	-.00	-.00	.19	.01	.01		.00	.00	.001
		22.8	.10	-.03	.41	-.00	-.00	.19	.01	.01		.00	.00	.001
803- 805	14B- 1	0.0	-1.66	4.35	1.54	.00	-.02	.15	-.08	-.07		.00	.00	.008
		5.7	-1.66	3.30	1.39	.00	-.02	.15	-.08	-.05		.00	.00	.008
		11.4	-1.66	2.25	1.25	.00	-.02	.15	-.08	-.04		.00	.00	.007
		17.1	-1.66	1.20	1.11	.00	-.02	.15	-.08	-.02		.00	.00	.007
		22.8	-1.66	.14	.97	.00	-.02	.15	-.08	-.01		.00	.00	.006
803- 903	JLB- 1	0.0	13.45	-12.16	19.70	.39	.59	5.47	.19	.03		.02	.02	.010
		8.1	13.47	25.62	-6.98	.17	.20	5.47	.19	.03		.01	.01	.010
		16.2	13.48	30.19	-13.62	-.02	-.10	5.47	.19	.04		.01	.01	.011
		24.3	13.45	6.98	-4.23	-.16	-.37	5.47	.19	.01		.01	.01	.009
		32.4	13.41	-40.44	16.06	-.25	-.60	5.47	.19	.06		.02	.02	.011

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	Z ----KSI------	Y SHEAR STRESS	Z SHEAR STRESS ------/	COMB. UNITY CHECK
803- 906	200- 1	0.0	10.51	8.55	6.01	.02	-.03	-.24	.28	.06		.00	.00	.015
		14.9	10.51	3.97	3.13	.02	-.03	-.24	.28	.03		.00	.00	.014
		29.8	10.51	-.62	.25	.02	-.03	-.24	.28	.00		.00	.00	.013
		44.7	10.51	-5.21	-2.63	.02	-.03	-.24	.28	.03		.00	.00	.014
		59.6	10.51	-9.79	-5.51	.02	-.03	-.24	.28	.06		.00	.00	.015
804- 805	106- 1	0.0	-.07	-.58	-.29	-.00	.00	.04	-.01	-.02		.00	.00	.001
		5.7	-.07	-.45	-.04	-.00	.00	.04	-.01	-.02		.00	.00	.001
		11.4	-.07	-.33	.20	-.00	.00	.04	-.01	-.01		.00	.00	.001
		17.1	-.07	-.21	.45	-.00	.00	.04	-.01	-.02		.00	.00	.001
		22.8	-.07	-.08	.70	-.00	.00	.04	-.01	-.02		.00	.00	.001
804- 806	148- 1	0.0	2.16	.15	4.28	.04	-.01	-.28	.10	.06		.01	.01	.007
		5.7	2.16	-.71	1.53	.04	-.01	-.28	.10	.02		.01	.01	.006
		11.4	2.16	-1.57	-1.22	.04	-.01	-.28	.10	.03		.01	.01	.006
		17.1	2.16	-2.43	-3.97	.04	-.01	-.28	.10	.07		.01	.01	.008
		22.8	2.16	-3.29	-6.73	.04	-.01	-.28	.10	.11		.01	.01	.009
805- 806	148- 1	0.0	-1.57	.37	2.06	.03	-.02	.32	-.07	-.03		.01	.01	.007
		5.7	-1.57	-.68	.12	.03	-.02	.32	-.07	-.01		.01	.01	.006
		11.4	-1.57	-1.73	-1.85	.03	-.02	.32	-.07	-.04		.01	.01	.007
		17.1	-1.57	-2.78	-3.79	.03	-.02	.32	-.07	-.07		.01	.01	.008
		22.8	-1.57	-3.82	-5.74	.03	-.02	.32	-.07	-.10		.01	.01	.009
806- 901	200- 1	0.0	-5.87	2.65	-23.00	-.24	-.07	-.58	-.15	-.13		.01	.01	.016
		14.9	-5.80	-5.18	9.03	-.12	-.02	-.58	-.15	-.06		.01	.01	.013
		29.8	-5.73	-5.21	18.73	.01	.02	-.58	-.15	-.11		.00	.00	.015
		44.7	-5.66	2.52	6.20	.13	.06	-.58	-.15	-.04		.01	.01	.012
		59.6	-5.64	15.82	-22.26	.17	.08	-.58	-.15	-.15		.01	.01	.016
806- 906	JL8- 1	0.0	-16.16	11.32	-4.28	.56	-.60	-20.91	-.23	-.02		.03	.03	.012
		8.1	-16.18	-27.73	-28.13	.14	-.21	-20.91	-.23	-.05		.02	.02	.013
		16.2	-16.21	-32.40	-33.93	-.02	.11	-20.91	-.23	-.06		.02	.02	.014
		24.3	-16.24	-8.50	-23.92	-.18	.37	-20.91	-.23	-.03		.03	.03	.013
		32.4	-16.23	39.95	1.87	-.35	.62	-20.91	-.23	-.05		.03	.03	.013
810- 910	P2- 1	0.0	-.73	21.16	120.19	.32	.01	4.10	-.00	-.05		.00	.00	.002
		8.1	-.76	22.40	88.57	.32	.01	4.10	-.00	-.04		.00	.00	.002
		16.2	-.76	23.64	56.96	.32	.01	4.10	-.00	-.03		.00	.00	.001
		24.3	-.76	24.88	25.34	.32	.01	4.10	-.00	-.01		.00	.00	.001
		32.4	-.76	26.12	-6.28	.32	.01	4.10	-.00	-.01		.00	.00	.001
811- 911	P2- 1	0.0	-28.21	111.94	-55.16	-.23	-.47	-5.13	-.11	-.05		.01	.01	.008
		8.1	-28.21	66.05	-12.77	-.23	-.47	-5.13	-.11	-.03		.01	.01	.007
		16.2	-28.21	20.16	9.61	-.23	-.47	-5.13	-.11	-.01		.01	.01	.006
		24.3	-28.21	-25.73	32.00	-.23	-.47	-5.13	-.11	-.02		.01	.01	.006
		32.4	-28.21	-71.62	54.39	-.23	-.47	-5.13	-.11	-.04		.01	.01	.007

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 2

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y	Z ----KSI----	Y SHEAR STRESS	Z SHEAR STRESS -------/	COMB. UNITY CHECK
812- 912	P2- 1	0.0	28.00	-129.86	-80.11	-.07	.46	-6.81	.11	.06		.01	.01	.008
		8.1	28.00	-85.33	-72.95	-.07	.46	-6.81	.11	.05		.01	.01	.007
		16.2	28.00	-40.79	-65.79	-.07	.46	-6.81	.11	.03		.01	.01	.007
		24.3	28.00	3.74	-58.63	-.07	.46	-6.81	.11	.02		.01	.01	.006
		32.4	28.00	48.28	-51.47	-.07	.46	-6.81	.11	.03		.01	.01	.006
901- 902	169- 1	0.0	.98	-2.38	-7.94	-.03	.01	.57	.04	.09		.01	.01	.006
		6.9	.98	-1.85	-5.20	-.03	.01	.57	.04	.06		.01	.01	.004
		13.7	.98	-1.32	-2.46	-.03	.01	.57	.04	.03		.01	.01	.003
		20.6	.98	-.79	.28	-.03	.01	.57	.04	.01		.01	.01	.002
		27.4	.98	-.26	3.02	-.03	.01	.57	.04	.03		.01	.01	.003
901- 904	169- 1	0.0	2.82	2.14	-7.89	-.04	-.01	.57	.12	.09		.01	.01	.009
		6.9	2.82	1.68	-4.88	-.04	-.01	.57	.12	.06		.01	.01	.008
		13.7	2.82	1.21	-1.87	-.04	-.01	.57	.12	.02		.01	.01	.006
		20.6	2.82	.75	1.14	-.04	-.01	.57	.12	.01		.01	.01	.006
		27.4	2.82	.29	4.15	-.04	-.01	.57	.12	.05		.01	.01	.007
901-1001	JL9- 1	0.0	-.05	13.53	-33.20	-.62	-.04	6.51	-.00	-.05		.02	.02	.002
		8.1	-.05	10.62	13.20	-.33	-.02	6.51	-.00	-.02		.01	.01	.001
		16.2	-.05	9.26	31.34	-.05	-.01	6.51	-.00	-.04		.01	.01	.002
		24.3	-.05	6.32	23.06	.21	-.05	6.51	-.00	-.03		.01	.01	.001
		32.4	-.06	-1.31	-9.79	.46	-.10	6.51	-.00	-.01		.02	.02	.001
901-1002	180- 1	0.0	-4.41	-1.29	-4.65	-.01	.00	1.14	-.16	-.04		.01	.01	.011
		10.6	-4.41	-1.13	-2.89	-.01	.00	1.14	-.16	-.03		.01	.01	.011
		21.1	-4.41	-.97	-1.14	-.01	.00	1.14	-.16	-.01		.01	.01	.010
		31.7	-4.41	-.82	.61	-.01	.00	1.14	-.16	-.01		.01	.01	.010
		42.2	-4.41	-.66	2.36	-.01	.00	1.14	-.16	-.02		.01	.01	.010
901-1004	180- 1	0.0	4.65	-.85	-3.16	-.01	.01	.92	.17	.03		.00	.00	.009
		10.6	4.65	.02	-2.20	-.01	.01	.92	.17	.02		.00	.00	.009
		21.1	4.65	.90	-1.25	-.01	.01	.92	.17	.01		.00	.00	.008
		31.7	4.65	1.77	-.29	-.01	.01	.92	.17	.02		.00	.00	.008
		42.2	4.65	2.65	.66	-.01	.01	.92	.17	.02		.00	.00	.009
902- 903	169- 1	0.0	.94	-.42	2.30	.02	.01	-.45	.04	.03		.00	.00	.003
		6.9	.94	.45	.75	.02	.01	-.45	.04	.01		.00	.00	.002
		13.7	.94	1.33	-.81	.02	.01	-.45	.04	.02		.00	.00	.002
		20.6	.94	2.20	-2.36	.02	.01	-.45	.04	.04		.00	.00	.003
		27.4	.94	3.08	-3.91	.02	.01	-.45	.04	.05		.00	.00	.004
902- 904	109- 1	0.0	-.02	.45	.49	.00	-.00	-.26	-.00	-.02		.00	.00	.001
		6.9	-.02	.22	.31	.00	-.00	-.26	-.00	-.01		.00	.00	.001
		13.7	-.02	-.01	.13	.00	-.00	-.26	-.00	-.00		.00	.00	.000
		20.6	-.02	-.24	-.05	.00	-.00	-.26	-.00	-.01		.00	.00	.000
		27.4	-.02	-.47	-.23	.00	-.00	-.26	-.00	-.02		.00	.00	.001

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
902- 905	109- 1	0.0	.07	.52	.23	-.00	-.00	.12	.01	.02		.00	.00	.001
		6.9	.07	.40	.24	-.00	-.00	.12	.01	.02		.00	.00	.001
		13.7	.07	.28	.24	-.00	-.00	.12	.01	.01		.00	.00	.001
		20.6	.07	.16	.25	-.00	-.00	.12	.01	.01		.00	.00	.001
		27.4	.07	.05	.26	-.00	-.00	.12	.01	.01		.00	.00	.001
903- 905	169- 1	0.0	-3.55	4.68	2.61	.00	-.02	.07	-.15	-.06		.00	.00	.013
		6.9	-3.55	3.65	2.26	.00	-.02	.07	-.15	-.05		.00	.00	.013
		13.7	-3.55	2.37	1.92	.00	-.02	.07	-.15	-.03		.00	.00	.012
		20.6	-3.55	1.11	1.57	.00	-.02	.07	-.15	-.02		.00	.00	.012
		27.4	-3.55	-.15	1.22	.00	-.02	.07	-.15	-.01		.00	.00	.011
903-1002	180- 1	0.0	4.46	.25	1.51	.00	.00	-.80	.16	.01		.00	.00	.008
		10.6	4.46	.61	1.11	.00	.00	-.80	.16	.01		.00	.00	.008
		21.1	4.46	.96	.71	.00	.00	-.80	.16	.01		.00	.00	.008
		31.7	4.46	1.32	.31	.00	.00	-.80	.16	.01		.00	.00	.008
		42.2	4.46	1.67	-.09	.00	.00	-.80	.16	.01		.00	.00	.008
903-1003	JL9- 1	0.0	.99	-36.03	35.02	.26	.40	-7.63	.01	.06		.02	.02	.003
		8.1	.96	-6.66	13.48	.18	.21	-7.63	.01	.02		.01	.01	.001
		16.2	.93	6.24	.52	.08	.06	-7.63	.01	.01		.01	.01	.001
		24.3	.91	4.58	-2.74	-.02	-.09	-7.63	.01	.01		.01	.01	.001
		32.4	.88	-11.60	3.71	-.12	-.24	-7.63	.01	.02		.01	.01	.001
903-1005	180- 1	0.0	8.12	2.80	2.98	.01	-.00	-.92	.30	.03		.00	.00	.015
		10.6	8.12	2.26	1.96	.01	-.00	-.92	.30	.03		.00	.00	.015
		21.1	8.12	1.71	.94	.01	-.00	-.92	.30	.02		.00	.00	.014
		31.7	8.12	1.17	-.08	.01	-.00	-.92	.30	.01		.00	.00	.014
		42.2	8.12	.63	-1.10	.01	-.00	-.92	.30	.01		.00	.00	.014
904- 905	109- 1	0.0	-.06	-.53	-.29	-.00	.00	.13	-.00	-.02		.00	.00	.001
		6.9	-.06	-.40	-.09	-.00	.00	.13	-.00	-.01		.00	.00	.001
		13.7	-.06	-.27	.11	-.00	.00	.13	-.00	-.01		.00	.00	.001
		20.6	-.06	-.14	.32	-.00	.00	.13	-.00	-.01		.00	.00	.001
		27.4	-.06	-.02	.52	-.00	.00	.13	-.00	-.02		.00	.00	.001
904- 906	169- 1	0.0	2.84	.43	4.21	.03	-.01	-.49	.12	.05		.01	.01	.007
		6.9	2.84	-.39	1.75	.03	-.01	-.49	.12	.02		.01	.01	.006
		13.7	2.84	-1.21	-.71	.03	-.01	-.49	.12	.02		.01	.01	.006
		20.6	2.84	-2.03	-3.17	.03	-.01	-.49	.12	.04		.01	.01	.007
		27.4	2.84	-2.85	-5.63	.03	-.01	-.49	.12	.07		.01	.01	.008
905- 906	169- 1	0.0	-3.48	.10	1.99	.02	-.02	.03	-.14	-.02		.00	.00	.012
		6.9	-3.48	-1.15	.38	.02	-.02	.03	-.14	-.01		.00	.00	.011
		13.7	-3.48	-2.40	-1.23	.02	-.02	.03	-.14	-.03		.00	.00	.012
		20.6	-3.48	-3.64	-2.85	.02	-.02	.03	-.14	-.05		.00	.00	.013
		27.4	-3.48	-4.89	-4.46	.02	-.02	.03	-.14	-.07		.00	.00	.014

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	Z ------KSI------	Y SHEAR STRESS	Z SHEAR STRESS -------/	COMB. UNITY CHECK
906-1004	18D- 1	0.0	-4.66	-1.51	2.14	.01	.00	-.38	-.17	-.02		.00	.00	.011
		10.6	-4.66	-1.22	1.35	.01	.00	-.38	-.17	-.02		.00	.00	.011
		21.1	-4.66	-.92	.56	.01	.00	-.38	-.17	-.01		.00	.00	.010
		31.7	-4.66	-.63	-.23	.01	.00	-.38	-.17	-.01		.00	.00	.010
		42.2	-4.66	-.34	-1.02	.01	.00	-.38	-.17	-.01		.00	.00	.010
906-1005	18D- 1	0.0	-8.15	.29	2.22	.01	-.01	-.26	-.30	-.02		.00	.00	.018
		10.6	-8.15	-.70	1.57	.01	-.01	-.26	-.30	-.01		.00	.00	.018
		21.1	-8.15	-1.69	.92	.01	-.01	-.26	-.30	-.02		.00	.00	.018
		31.7	-8.15	-2.68	.28	.01	-.01	-.26	-.30	-.02		.00	.00	.019
		42.2	-8.15	-3.67	-.37	.01	-.01	-.26	-.30	-.03		.00	.00	.019
906-1006	JL9- 1	0.0	-.95	24.50	-6.28	.18	-.40	-4.08	-.01	-.03		.02	.02	.002
		8.1	-.92	-3.52	-17.35	.05	-.19	-4.08	-.01	-.02		.01	.01	.002
		16.2	-.89	-15.74	-18.26	-.03	-.02	-4.08	-.01	-.03		.00	.00	.002
		24.3	-.86	-8.35	-11.24	-.11	.14	-4.08	-.01	-.02		.01	.01	.001
		32.4	-.84	12.59	3.67	-.19	.30	-4.08	-.01	-.02		.01	.01	.001
1010- 910	P3- 1	0.0	-.76	-27.68	-178.33	-.47	.14	4.10	-.00	-.08		.00	.00	.003
		8.1	-.76	-14.23	-132.17	-.47	.14	4.10	-.00	-.06		.00	.00	.002
		16.2	-.76	-.78	-86.01	-.47	.14	4.10	-.00	-.04		.00	.00	.002
		24.3	-.76	12.66	-39.86	-.47	.14	4.10	-.00	-.02		.00	.00	.001
		32.4	-.76	26.11	6.30	-.47	.14	4.10	-.00	-.01		.00	.00	.001
1011- 911	P3- 1	0.0	-28.22	181.03	107.85	.42	-.65	-5.16	-.11	-.09		.01	.01	.009
		8.1	-28.22	117.66	67.31	.42	-.65	-5.16	-.11	-.06		.01	.01	.008
		16.2	-28.22	54.68	26.77	.42	-.65	-5.16	-.11	-.03		.01	.01	.007
		24.3	-28.22	-8.50	-13.77	.42	-.65	-5.16	-.11	-.01		.01	.01	.006
		32.4	-28.22	-71.67	-54.32	.42	-.65	-5.16	-.11	-.04		.01	.01	.007
1012- 912	P3- 1	0.0	28.00	-157.18	26.73	-.06	.53	-6.81	.11	.07		.01	.01	.008
		8.1	28.00	-105.81	32.92	-.06	.53	-6.81	.11	.05		.01	.01	.007
		16.2	28.00	-54.45	39.10	-.06	.53	-6.81	.11	.03		.01	.01	.006
		24.3	28.00	-3.09	45.29	-.06	.53	-6.81	.11	.02		.01	.01	.006
		32.4	28.00	48.28	51.47	-.06	.53	-6.81	.11	.03		.01	.01	.006
1001-1002	200- 1	0.0	5.78	-7.01	-2.51	.06	.03	1.66	.15	.04		.01	.01	.009
		8.0	5.78	-4.60	-5.15	.00	.03	1.66	.15	.04		.01	.01	.009
		16.0	5.78	-2.19	-4.14	-.02	.03	1.66	.15	.03		.01	.01	.008
		24.0	5.78	.22	-2.49	-.02	.03	1.66	.15	.01		.01	.01	.008
		32.0	5.78	2.64	-.84	-.02	.03	1.66	.15	.02		.01	.01	.008
1001-1004	200- 1	0.0	-5.33	7.83	-5.72	-.01	-.02	.53	-.14	-.05		.00	.00	.012
		8.0	-5.33	5.67	-4.45	-.01	-.02	.53	-.14	-.04		.00	.00	.012
		16.0	-5.33	3.51	-3.19	-.01	-.02	.53	-.14	-.03		.00	.00	.011
		24.0	-5.33	1.35	-1.93	-.01	-.02	.53	-.14	-.01		.00	.00	.010
		32.0	-5.33	-.81	-.67	-.01	-.02	.53	-.14	-.01		.00	.00	.010

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 2

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
1002-1003	200- 1	0.0	.01	.05	.03	.01	.01	.47	.00	.00		.00	.00	.000
		8.0	.01	1.08	-.82	.01	.01	.47	.00	.01		.00	.00	.000
		16.0	.01	2.12	-1.67	.01	.01	.47	.00	.02		.00	.00	.001
		24.0	.01	3.15	-2.52	.01	.01	.47	.00	.02		.00	.00	.001
		32.0	.01	4.18	-3.38	.01	.01	.47	.00	.03		.00	.00	.001
1002-1004	140- 1	0.0	.01	2.09	.24	.00	-.01	-.60	.00	.04		.01	.01	.002
		8.0	.01	.99	.15	.00	-.01	-.60	.00	.02		.01	.01	.001
		16.0	.01	-.12	.06	.00	-.01	-.60	.00	.00		.01	.01	.000
		24.0	.01	-1.22	-.02	.00	-.01	-.60	.00	.02		.01	.01	.001
		32.0	.01	-2.33	-.11	.00	-.01	-.60	.00	.04		.01	.01	.002
1002-1005	140- 1	0.0	.03	2.30	.11	-.00	-.01	.19	.00	.04		.00	.00	.002
		8.0	.03	1.50	.11	-.00	-.01	.19	.00	.03		.00	.00	.001
		16.0	.03	.70	.12	-.00	-.01	.19	.00	.01		.00	.00	.001
		24.0	.03	-.11	.13	-.00	-.01	.19	.00	.00		.00	.00	.000
		32.0	.03	-.91	.14	-.00	-.01	.19	.00	.02		.00	.00	.001
1003-1005	200- 1	0.0	-5.83	10.28	4.76	.01	-.04	-.15	-.15	-.06		.00	.00	.013
		8.0	-5.83	6.75	3.50	.01	-.04	-.15	-.15	-.04		.00	.00	.013
		16.0	-5.83	3.22	2.25	.01	-.04	-.15	-.15	-.02		.00	.00	.012
		24.0	-5.83	-.31	.99	.01	-.04	-.15	-.15	-.01		.00	.00	.011
		32.0	-5.83	-3.83	-.26	.01	-.04	-.15	-.15	-.02		.00	.00	.012
1004-1005	140- 1	0.0	-.04	-1.26	-.15	-.00	.00	.36	-.00	-.02		.00	.00	.001
		8.0	-.04	-.91	-.05	-.00	.00	.36	-.00	-.02		.00	.00	.001
		16.0	-.04	-.57	.06	-.00	.00	.36	-.00	-.01		.00	.00	.001
		24.0	-.04	-.22	.16	-.00	.00	.36	-.00	-.01		.00	.00	.000
		32.0	-.04	.12	.26	-.00	.00	.36	-.00	-.01		.00	.00	.000
1004-1006	200- 1	0.0	.75	1.82	-1.29	.00	-.02	-.71	.02	.01		.00	.00	.001
		8.0	.75	.10	-1.31	.00	-.02	-.71	.02	.01		.00	.00	.001
		16.0	.75	-1.63	-1.33	.00	-.02	-.71	.02	.01		.00	.00	.001
		24.0	.75	-3.35	-1.35	.00	-.02	-.71	.02	.02		.00	.00	.002
		32.0	.75	-5.08	-1.37	.00	-.02	-.71	.02	.03		.00	.00	.002
1005-1006	200- 1	0.0	4.78	.22	.06	.01	-.03	-.24	.13	.00		.00	.00	.006
		8.0	4.78	-2.30	-.77	.01	-.03	-.24	.13	.01		.00	.00	.006
		16.0	4.78	-4.82	-1.60	.01	-.03	-.24	.13	.03		.00	.00	.007
		24.0	4.78	-7.34	-2.43	.01	-.03	-.24	.13	.04		.00	.00	.008
		32.0	4.78	-9.87	-3.25	.01	-.03	-.24	.13	.06		.00	.00	.008

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 3

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /---	BENDING STRESS Y	Z ---KSI---	Y SHEAR STRESS	Z SHEAR STRESS ---/	COMB. UNITY CHECK
101- 102	W18- 1	0.0	-.01	.06	.66	.01	-.00	-.00	-.00	.00	.06	.00	.00	.003
		3.6	-.01	.03	.43	.01	-.00	-.00	-.00	.00	.04	.00	.00	.002
		7.3	-.01	.01	.19	.01	-.00	-.00	-.00	.00	.02	.00	.00	.001
		10.9	-.01	-.02	-.04	.01	-.00	-.00	-.00	-.00	-.00	.00	.00	.000
		14.5	-.01	-.05	-.27	.01	-.00	-.00	-.00	-.00	-.03	.00	.00	.001
101- 104	W18- 1	0.0	-.01	.09	.68	.01	-.00	.00	-.00	.00	.06	.00	.00	.003
		3.6	-.01	.07	.43	.01	-.00	.00	-.00	.00	.04	.00	.00	.002
		7.2	-.01	.04	.18	.01	-.00	.00	-.00	.00	.02	.00	.00	.001
		10.9	-.01	.02	-.07	.01	-.00	.00	-.00	.00	-.01	.00	.00	.000
		14.5	-.01	-.01	-.32	.01	-.00	.00	-.00	-.00	-.03	.00	.00	.001
101- 201	DKL- 1	0.0	-.00	-.08	.11	.01	.02	1.34	-.00	-.00		.00	.00	.000
		3.8	-.00	.77	-.36	.01	.02	1.34	-.00	-.00		.00	.00	.000
		7.5	-.00	1.61	-.83	.01	.02	1.34	-.00	-.00		.00	.00	.000
		11.3	-.00	2.46	-1.29	.01	.02	1.34	-.00	-.00		.00	.00	.000
		15.0	-.00	3.31	-1.76	.01	.02	1.34	-.00	-.01		.00	.00	.000
102- 103	W18- 1	0.0	-.00	-.05	-.23	-.00	-.00	.00	-.00	-.00	-.02	.00	.00	.001
		3.6	-.00	-.07	-.09	-.00	-.00	.00	-.00	-.00	-.01	.00	.00	.000
		7.3	-.00	-.10	.06	-.00	-.00	.00	-.00	-.00	.01	.00	.00	.000
		10.9	-.00	-.13	.20	-.00	-.00	.00	-.00	-.00	.02	.00	.00	.001
		14.5	-.00	-.16	.34	-.00	-.00	.00	-.00	-.00	.03	.00	.00	.002
102- 104	W08- 1	0.0	.00	.00	-.04	-.00	.00	-.00	.00	.00	-.01	.00	.00	.000
		3.6	.00	.00	-.02	-.00	.00	-.00	.00	.00	-.00	.00	.00	.000
		7.2	.00	.01	-.01	-.00	.00	-.00	.00	.00	-.00	.00	.00	.000
		10.9	.00	.01	.01	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		14.5	.00	.01	.03	-.00	.00	-.00	.00	.00	.01	.00	.00	.000
102- 105	W08- 1	0.0	-.01	-.00	.00	.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		3.6	-.01	-.00	-.01	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
		7.2	-.01	-.00	-.03	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
		10.9	-.01	-.00	-.04	.00	-.00	.00	-.00	-.00	-.01	.00	.00	.000
		14.5	-.01	-.00	-.05	.00	-.00	.00	-.00	-.00	-.01	.00	.00	.001
103- 105	W18- 1	0.0	.01	-.21	-.23	-.00	.00	-.00	.00	-.00	-.02	.00	.00	.001
		3.6	.01	-.15	-.17	-.00	.00	-.00	.00	-.00	-.02	.00	.00	.001
		7.2	.01	-.09	-.12	-.00	.00	-.00	.00	-.00	-.01	.00	.00	.001
		10.9	.01	-.03	-.06	-.00	.00	-.00	.00	-.00	-.01	.00	.00	.000
		14.5	.01	.03	-.00	-.00	.00	-.00	.00	.00	-.00	.00	.00	.000
103- 203	DKL- 1	0.0	.00	.18	.26	.00	-.01	-.57	.00	.00		.00	.00	.000
		3.8	.00	-.04	.07	.00	-.01	-.57	.00	.00		.00	.00	.000
		7.5	.00	-.27	-.13	.00	-.01	-.57	.00	.00		.00	.00	.000
		11.3	.00	-.50	-.32	.00	-.01	-.57	.00	.00		.00	.00	.000
		15.0	.00	-.73	-.52	.00	-.01	-.57	.00	.00		.00	.00	.000

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
104- 105	W08- 1	0.0	.01	-.01	.02	.00	.00	-.00	.00	-.00	.00	.00	.00	.000
		3.6	.01	-.01	.00	.00	.00	-.00	.00	-.00	.00	.00	.00	.000
		7.3	.01	-.00	-.02	.00	.00	-.00	.00	-.00	-.00	.00	.00	.000
		10.9	.01	.00	-.04	.00	.00	-.00	.00	.00	-.01	.00	.00	.000
		14.5	.01	.00	-.06	.00	.00	-.00	.00	.00	-.01	.00	.00	.001
104- 106	W10- 1	0.0	-.02	-.00	-.31	-.01	-.00	.00	-.00	-.00	-.03	.00	.00	.001
		3.6	-.02	-.03	-.09	-.01	-.00	.00	-.00	-.00	-.01	.00	.00	.000
		7.3	-.02	-.05	.13	-.01	-.00	.00	-.00	-.00	.01	.00	.00	.001
		10.9	-.02	-.08	.35	-.01	-.00	.00	-.00	-.00	.03	.00	.00	.002
		14.5	-.02	-.11	.57	-.01	-.00	.00	-.00	-.00	.05	.00	.00	.003
105- 106	W10- 1	0.0	-.00	.03	-.12	-.00	.00	.00	-.00	.00	-.01	.00	.00	.001
		3.6	-.00	.09	.03	-.00	.00	.00	-.00	.00	.00	.00	.00	.000
		7.3	-.00	.15	.18	-.00	.00	.00	-.00	.00	.02	.00	.00	.001
		10.9	-.00	.22	.33	-.00	.00	.00	-.00	.00	.03	.00	.00	.002
		14.5	-.00	.28	.48	-.00	.00	.00	-.00	.00	.04	.00	.00	.002
106- 206	DKL- 1	0.0	-.01	.25	.33	.00	.01	-1.81	-.00	-.00		.00	.00	.000
		3.8	-.01	.57	.31	.00	.01	-1.81	-.00	-.00		.00	.00	.000
		7.5	-.01	.89	.30	.00	.01	-1.81	-.00	-.00		.00	.00	.000
		11.3	-.01	1.21	.28	.00	.01	-1.81	-.00	-.00		.00	.00	.000
		15.0	-.01	1.53	.27	.00	.01	-1.81	-.00	-.00		.00	.00	.000
201- 202	W10- 1	0.0	.20	-.09	.70	.01	.00	-.00	.01	-.00	.07	.00	.00	.004
		3.6	.20	-.09	.45	.01	.00	-.00	.01	-.00	.04	.00	.00	.003
		7.3	.20	-.09	.20	.01	.00	-.00	.01	-.00	.02	.00	.00	.001
		10.9	.20	-.08	-.05	.01	.00	-.00	.01	-.00	-.00	.00	.00	.001
		14.5	.20	-.08	-.29	.01	.00	-.00	.01	-.00	-.03	.00	.00	.002
201- 204	W10- 1	0.0	.07	-.28	.73	.01	.00	.00	.00	-.00	.07	.00	.00	.003
		3.6	.07	-.22	.46	.01	.00	.00	.00	-.00	.04	.00	.00	.002
		7.2	.07	-.17	.20	.01	.00	.00	.00	-.00	.02	.00	.00	.001
		10.9	.07	-.11	-.07	.01	.00	.00	.00	-.00	-.01	.00	.00	.001
		14.5	.07	-.06	-.33	.01	.00	.00	.00	-.00	-.03	.00	.00	.002
201- 301	DKL- 1	0.0	.07	3.12	-2.10	-.15	-.05	6.16	.00	.01		.01	.01	.000
		3.8	.07	.85	4.71	-.15	-.05	6.16	.00	.01		.01	.01	.000
		7.5	.07	-1.41	11.51	-.15	-.05	6.16	.00	.02		.01	.01	.001
		11.3	.07	-3.68	18.31	-.15	-.05	6.16	.00	.03		.01	.01	.001
		15.0	.07	-5.95	25.11	-.15	-.05	6.16	.00	.04		.01	.01	.002
201- 303	120- 1	0.0	-.11	-.33	1.83	.00	.00	-.21	-.01	-.03		.00	.00	.002
		8.2	-.11	-.10	1.48	.00	.00	-.21	-.01	-.03		.00	.00	.001
		16.3	-.11	.13	1.12	.00	.00	-.21	-.01	-.02		.00	.00	.001
		24.5	-.11	.36	.76	.00	.00	-.21	-.01	-.01		.00	.00	.001
		32.6	-.11	.59	.41	.00	.00	-.21	-.01	-.01		.00	.00	.001

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	CUMM. UNITY CHECK
202- 203	W16- 1	0.0	.21	-.07	-.26	-.00	.00	.00	.01	-.00	-.02	.00	.00	.002
		3.6	.21	-.07	-.10	-.00	.00	.00	.01	-.00	-.01	.00	.00	.001
		7.3	.21	-.07	.06	-.00	.00	.00	.01	-.00	.01	.00	.00	.001
		10.9	.21	-.07	.22	-.00	.00	.00	.01	-.00	.02	.00	.00	.002
		14.5	.21	-.06	.37	-.00	.00	.00	.01	-.00	.03	.00	.00	.002
202- 204	W08- 1	0.0	.00	.01	-.04	-.00	-.00	.00	.00	.00	-.01	.00	.00	.000
		3.6	.00	.01	-.02	-.00	-.00	.00	.00	.00	-.00	.00	.00	.000
		7.2	.00	.01	-.00	-.00	-.00	.00	.00	.00	-.00	.00	.00	.000
		10.9	.00	.01	.02	-.00	-.00	.00	.00	.00	.00	.00	.00	.000
		14.5	.00	.01	.04	-.00	-.00	.00	.00	.00	.01	.00	.00	.000
202- 205	W08- 1	0.0	-.01	-.01	.01	.00	.00	.00	-.00	-.00	.00	.00	.00	.000
		3.6	-.01	-.01	-.01	.00	.00	.00	-.00	-.00	-.00	.00	.00	.000
		7.2	-.01	-.01	-.03	.00	.00	.00	-.00	-.00	-.00	.00	.00	.000
		10.9	-.01	-.01	-.04	.00	.00	.00	-.00	-.00	-.01	.00	.00	.001
		14.5	-.01	-.01	-.06	.00	.00	.00	-.00	-.00	-.01	.00	.00	.001
203- 205	W16- 1	0.0	-.18	-.24	-.26	-.00	.00	.00	-.01	-.00	-.02	.00	.00	.002
		3.6	-.18	-.16	-.19	-.00	.00	.00	-.01	-.00	-.02	.00	.00	.002
		7.2	-.18	-.08	-.12	-.00	.00	.00	-.01	-.00	-.01	.00	.00	.001
		10.9	-.18	.00	-.05	-.00	.00	.00	-.01	.00	-.00	.00	.00	.001
		14.5	-.18	.09	.02	-.00	.00	.00	-.01	.00	.00	.00	.00	.001
203- 303	UKL- 1	0.0	.03	-1.57	.62	.11	.21	-3.14	.00	.00		.01	.01	.000
		3.8	.03	8.26	-4.22	.11	.21	-3.14	.00	.01		.01	.01	.001
		7.5	.03	17.89	-9.07	.11	.21	-3.14	.00	.03		.01	.01	.001
		11.3	.03	27.52	-13.91	.11	.21	-3.14	.00	.05		.01	.01	.002
		15.0	.03	37.15	-18.76	.11	.21	-3.14	.00	.07		.01	.01	.003
203- 306	120- 1	0.0	-.07	.26	-2.30	-.01	-.00	-.23	-.00	-.04		.00	.00	.002
		8.2	-.07	.06	-1.03	-.01	-.00	-.23	-.00	-.02		.00	.00	.001
		16.3	-.07	-.14	.24	-.01	-.00	-.23	-.00	-.00		.00	.00	.000
		24.5	-.07	-.34	1.51	-.01	-.00	-.23	-.00	-.03		.00	.00	.001
		32.6	-.07	-.54	2.78	-.01	-.00	-.23	-.00	-.05		.00	.00	.002
204- 205	W08- 1	0.0	.01	-.01	.02	.00	.00	-.00	.00	-.00	.00	.00	.00	.000
		3.6	.01	-.00	-.00	.00	.00	-.00	.00	-.00	-.00	.00	.00	.000
		7.3	.01	-.00	-.02	.00	.00	-.00	.00	-.00	-.00	.00	.00	.000
		10.9	.01	.00	-.05	.00	.00	-.00	.00	.00	-.01	.00	.00	.000
		14.5	.01	.01	-.07	.00	.00	-.00	.00	.00	-.01	.00	.00	.001
204- 206	W16- 1	0.0	.07	-.05	-.31	-.01	.00	.00	.00	-.00	-.03	.00	.00	.002
		3.6	.07	.00	-.09	-.01	.00	.00	.00	.00	-.01	.00	.00	.001
		7.3	.07	.05	.13	-.01	.00	.00	.00	.00	.01	.00	.00	.001
		10.9	.07	.10	.36	-.01	.00	.00	.00	.00	.03	.00	.00	.002
		14.5	.07	.16	.58	-.01	.00	.00	.00	.00	.05	.00	.00	.003

S I M A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y ---KSI---	BENDING STRESS Z	Y SHEAR STRESS	Z SHEAR STRESS -------/	COMB. UNITY CHECK
205- 206	K18- 1	0.0	-.19	.08	-.11	-.00	.00	-.00	-.01	.00	-.01	.00	.00	.001
		3.6	-.19	.16	.04	-.00	.00	-.00	-.01	.00	.00	.00	.00	.001
		7.3	-.19	.25	.19	-.00	.00	-.00	-.01	.00	.02	.00	.00	.002
		10.9	-.19	.35	.34	-.00	.00	-.00	-.01	.00	.03	.00	.00	.002
		14.5	-.19	.42	.48	-.00	.00	-.00	-.01	.00	.05	.00	.00	.003
206- 301	120- 1	0.0	.04	-.18	-.38	.00	.00	.45	.00	.01		.00	.00	.000
		8.2	.04	-.04	-.86	.00	.00	.45	.00	.02		.00	.00	.001
		16.3	.04	.10	-1.34	.00	.00	.45	.00	.02		.00	.00	.001
		24.5	.04	.24	-1.82	.00	.00	.45	.00	.03		.00	.00	.001
		32.6	.04	.38	-2.30	.00	.00	.45	.00	.04		.00	.00	.002
206- 306	DRL- 1	0.0	-.03	1.98	.69	.14	-.07	-3.42	-.00	-.00		.01	.01	.000
		3.8	-.03	-1.25	-5.78	.14	-.07	-3.42	-.00	-.01		.01	.01	.000
		7.5	-.03	-4.47	-12.24	.14	-.07	-3.42	-.00	-.02		.01	.01	.001
		11.3	-.03	-7.70	-18.70	.14	-.07	-3.42	-.00	-.03		.01	.01	.001
		15.0	-.03	-10.93	-25.16	.14	-.07	-3.42	-.00	-.04		.01	.01	.002
301- 303	123- 1	0.0	-.62	.50	3.25	.01	-.00	.28	-.03	-.06		.00	.00	.004
		7.3	-.62	.43	2.33	.01	-.00	.28	-.03	-.04		.00	.00	.004
		14.5	-.62	.37	1.40	.01	-.00	.28	-.03	-.03		.00	.00	.003
		21.7	-.62	.30	.48	.01	-.00	.28	-.03	-.01		.00	.00	.002
		29.0	-.62	.23	-.45	.01	-.00	.28	-.03	-.01		.00	.00	.002
301- 306	123- 1	0.0	-.17	.33	2.25	.00	-.00	-.30	-.01	-.04		.00	.00	.002
		7.2	-.17	.24	1.98	.00	-.00	-.30	-.01	-.04		.00	.00	.002
		14.5	-.17	.15	1.72	.00	-.00	-.30	-.01	-.03		.00	.00	.002
		21.7	-.17	.07	1.45	.00	-.00	-.30	-.01	-.03		.00	.00	.002
		29.0	-.17	-.02	1.19	.00	-.00	-.30	-.01	-.02		.00	.00	.001
301- 401	DRL- 1	0.0	-.15	-7.72	28.57	.30	.09	16.45	-.00	-.05		.02	.02	.002
		7.1	-.15	-.24	3.03	.30	.09	16.45	-.00	-.00		.02	.02	.000
		14.2	-.15	7.24	-22.52	.30	.09	16.45	-.00	-.04		.02	.02	.002
		21.4	-.15	14.72	-48.07	.30	.09	16.45	-.00	-.08		.02	.02	.003
		28.5	-.15	22.20	-73.62	.30	.09	16.45	-.00	-.12		.02	.02	.005
303- 306	123- 1	0.0	.62	-.58	-3.05	-.02	.00	.14	.03	.05		.00	.00	.004
		7.2	.62	-.47	-1.37	-.02	.00	.14	.03	.03		.00	.00	.003
		14.5	.62	-.37	.31	-.02	.00	.14	.03	.01		.00	.00	.002
		21.7	.62	-.27	2.00	-.02	.00	.14	.03	.04		.00	.00	.003
		29.0	.62	-.16	3.68	-.02	.00	.14	.03	.06		.00	.00	.004
303- 403	DRL- 1	0.0	-.02	38.00	-19.40	-.28	-.33	-6.20	-.00	-.07		.01	.01	.003
		7.1	-.02	10.03	4.45	-.28	-.33	-6.20	-.00	-.02		.01	.01	.001
		14.2	-.02	-17.94	28.31	-.28	-.33	-6.20	-.00	-.05		.01	.01	.002
		21.4	-.02	-45.91	52.16	-.28	-.33	-6.20	-.00	-.11		.01	.01	.005
		28.5	-.02	-73.88	76.01	-.28	-.33	-6.20	-.00	-.17		.01	.01	.007

LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
305- 406	DRL- 1	0.0	-.06	-12.31	-24.71	-.25	.25	-10.87	-.00	-.04		.02	.02	.002
		7.1	-.06	8.90	-3.76	-.25	.25	-10.87	-.00	-.02		.02	.02	.001
		14.2	-.06	30.12	17.19	-.25	.25	-10.87	-.00	-.05		.02	.02	.002
		21.4	-.06	51.33	38.14	-.25	.25	-10.87	-.00	-.10		.02	.02	.004
		28.5	-.06	72.54	59.08	-.25	.25	-10.87	-.00	-.15		.02	.02	.006
401- 501	JL4- 1	0.0	-4.37	-33.06	-37.24	-4.03	-.91	31.27	-.02	-.02		.04	.04	.002
		1.1	-4.37	-45.55	17.98	-4.03	-.91	31.27	-.02	-.02		.04	.04	.002
		2.3	-4.37	-58.03	73.20	-4.03	-.91	31.27	-.02	-.03		.04	.04	.002
		3.4	-4.37	-70.51	128.42	-4.03	-.91	31.27	-.02	-.05		.04	.04	.003
		4.6	-4.37	-83.00	183.63	-4.03	-.91	31.27	-.02	-.07		.04	.04	.004
401- 510	P1- 1	0.0	4.16	-41.70	52.26	3.96	.64	-12.09	.02	.03		.04	.04	.002
		1.1	4.16	-32.91	-2.05	3.96	.64	-12.09	.02	.02		.04	.04	.002
		2.3	4.16	-24.12	-56.35	3.96	.64	-12.09	.02	.03		.04	.04	.002
		3.4	4.16	-15.33	-110.65	3.96	.64	-12.09	.02	.05		.04	.04	.003
		4.6	4.16	-6.54	-164.96	3.96	.64	-12.09	.02	.08		.04	.04	.004
403- 503	JL4- 1	0.0	-114.15	-51.32	-21.19	2.57	1.32	-49.59	-.45	-.02		.03	.03	.022
		1.1	-114.15	-33.22	-56.36	2.57	1.32	-49.59	-.45	-.02		.03	.03	.022
		2.3	-114.15	-15.12	-91.52	2.57	1.32	-49.59	-.45	-.03		.03	.03	.022
		3.4	-114.15	2.98	-126.68	2.57	1.32	-49.59	-.45	-.04		.03	.03	.023
		4.6	-114.15	21.08	-161.84	2.57	1.32	-49.59	-.45	-.06		.03	.03	.023
403- 511	P1- 1	0.0	114.38	21.38	-81.26	-2.25	-1.20	26.60	.52	.04		.03	.03	.026
		1.1	114.38	4.98	-50.37	-2.25	-1.20	26.60	.52	.02		.03	.03	.025
		2.3	114.38	-11.42	-19.47	-2.25	-1.20	26.60	.52	.01		.03	.03	.024
		3.4	114.38	-27.82	11.42	-2.25	-1.20	26.60	.52	.01		.03	.03	.025
		4.6	114.38	-44.22	42.31	-2.25	-1.20	26.60	.52	.03		.03	.03	.025
406- 506	JL4- 1	0.0	117.06	56.15	39.14	.82	-1.21	-31.77	.46	.02		.02	.02	.022
		1.1	117.06	39.60	27.90	.82	-1.21	-31.77	.46	.02		.02	.02	.022
		2.3	117.06	23.06	16.66	.82	-1.21	-31.77	.46	.01		.02	.02	.022
		3.4	117.06	6.51	5.42	.82	-1.21	-31.77	.46	.00		.02	.02	.021
		4.6	117.06	-10.03	-5.82	.82	-1.21	-31.77	.46	.00		.02	.02	.021
406- 512	P1- 1	0.0	-117.08	16.39	20.93	-1.07	1.42	30.76	-.53	-.01		.02	.02	.025
		1.1	-117.08	35.90	35.56	-1.07	1.42	30.76	-.53	-.02		.02	.02	.026
		2.3	-117.08	55.40	50.19	-1.07	1.42	30.76	-.53	-.03		.02	.02	.026
		3.4	-117.08	74.91	64.81	-1.07	1.42	30.76	-.53	-.05		.02	.02	.027
		4.6	-117.08	94.41	79.44	-1.07	1.42	30.76	-.53	-.06		.02	.02	.027
501- 502	165- 1	0.0	3.48	-3.80	38.05	.30	.00	-1.81	.12	.34		.03	.03	.020
		3.8	3.48	-3.67	24.40	.30	.00	-1.81	.12	.22		.03	.03	.015
		7.6	3.48	-3.55	10.74	.30	.00	-1.81	.12	.10		.03	.03	.010
		11.4	3.48	-3.42	-2.91	.30	.00	-1.81	.12	.04		.03	.03	.007
		15.1	3.48	-3.30	-16.56	.30	.00	-1.81	.12	.15		.03	.03	.012

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y	BENDING STRESS Z ---KSI---	Y SHEAR STRESS	Z SHEAR STRESS ------/	COMB. UNITY CHECK
501- 504	105- 1	0.0	-7.46	-6.37	38.49	.32	.03	2.32	-.25	-.35		.03	.03	.028
		3.8	-7.46	-4.86	23.84	.32	.03	2.32	-.25	-.22		.03	.03	.023
		7.6	-7.46	-3.35	9.18	.32	.03	2.32	-.25	-.09		.03	.03	.017
		11.4	-7.46	-1.84	-5.47	.32	.03	2.32	-.25	-.05		.03	.03	.016
		15.1	-7.46	-.33	-20.13	.32	.03	2.32	-.25	-.18		.03	.03	.021
501- 601	JL5- 1	0.0	-8.31	-97.35	109.57	6.06	1.82	44.26	-.06	-.09		.10	.10	.007
		1.5	-8.31	-64.19	-1.04	6.06	1.82	44.26	-.06	-.04		.10	.10	.004
		3.0	-8.31	-31.03	-111.66	6.06	1.82	44.26	-.06	-.07		.10	.10	.006
		4.6	-8.31	2.14	-221.34	5.87	1.82	44.26	-.06	-.14		.10	.10	.009
		6.1	-8.31	35.39	-325.20	5.52	1.83	44.26	-.06	-.21		.10	.10	.011
501- 622	200- 1	0.0	7.52	23.68	-90.71	-.94	-.30	-2.34	.20	.52		.06	.06	.031
		5.1	7.52	5.25	-53.04	-.94	-.30	-2.34	.20	.19		.06	.06	.017
		10.2	7.51	-11.97	17.83	-.69	-.26	-2.34	.20	.12		.05	.05	.014
		15.3	7.49	-26.08	52.00	-.43	-.20	-2.34	.20	.33		.03	.03	.023
		20.4	7.50	-36.50	70.55	-.18	-.13	-2.34	.20	.44		.02	.02	.028
502- 503	105- 1	0.0	3.91	-2.89	-14.00	-.17	-.01	-.52	.13	.13		.01	.01	.011
		3.8	3.91	-3.56	-6.42	-.17	-.01	-.52	.13	.07		.01	.01	.009
		7.6	3.91	-4.24	1.15	-.17	-.01	-.52	.13	.04		.01	.01	.008
		11.4	3.91	-4.91	8.72	-.17	-.01	-.52	.13	.09		.01	.01	.010
		15.1	3.91	-5.58	16.29	-.17	-.01	-.52	.13	.15		.01	.01	.012
502- 504	105- 1	0.0	.15	-.55	-2.23	-.02	.01	.02	.01	.08		.00	.00	.004
		3.8	.15	-.19	-1.26	-.02	.01	.02	.01	.04		.00	.00	.002
		7.6	.15	.18	-.28	-.02	.01	.02	.01	.01		.00	.00	.001
		11.4	.15	.55	.69	-.02	.01	.02	.01	.03		.00	.00	.002
		15.2	.15	.92	1.67	-.02	.01	.02	.01	.06		.00	.00	.003
502- 505	105- 1	0.0	-.68	-1.03	-.34	.01	.01	.18	-.06	-.04		.01	.01	.005
		3.8	-.68	-.60	-.68	.01	.01	.18	-.06	-.03		.01	.01	.004
		7.6	-.68	-.17	-1.03	.01	.01	.18	-.06	-.03		.01	.01	.005
		11.4	-.68	.26	-1.38	.01	.01	.18	-.06	-.05		.01	.01	.005
		15.2	-.68	.69	-1.72	.01	.01	.18	-.06	-.06		.01	.01	.006
503- 505	105- 1	0.0	2.52	-3.64	-10.41	-.04	.03	-2.05	.08	.10		.01	.01	.008
		3.8	2.52	-2.29	-8.64	-.04	.03	-2.05	.08	.08		.01	.01	.007
		7.6	2.52	-.95	-6.87	-.04	.03	-2.05	.08	.06		.01	.01	.006
		11.4	2.52	.40	-5.10	-.04	.03	-2.05	.08	.05		.01	.01	.006
		15.1	2.52	1.75	-3.33	-.04	.03	-2.05	.08	.03		.01	.01	.005
503- 603	JL5- 1	0.0	-98.40	49.93	-107.99	-4.47	-3.23	-108.07	-.69	-.07		.11	.11	.035
		1.5	-98.40	-9.04	-26.36	-4.47	-3.23	-108.07	-.69	-.02		.11	.11	.033
		3.0	-98.40	-66.38	54.36	-4.34	-2.99	-108.07	-.69	-.05		.11	.11	.034
		4.6	-98.40	-117.82	131.85	-4.16	-2.65	-108.07	-.69	-.11		.10	.10	.037
		6.1	-98.40	-163.32	206.08	-3.98	-2.34	-108.07	-.69	-.17		.10	.10	.039

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
503- 625	200- 1	0.0	-14.83	-107.62	-34.11	-.19	1.14	-4.33	-.39	-.63		.07	.07	.046
		5.1	-14.83	-36.98	-22.87	-.18	1.07	-4.33	-.39	-.25		.07	.07	.030
		10.1	-14.83	16.35	-12.61	-.16	.76	-4.33	-.39	-.12		.05	.05	.024
		15.2	-14.82	52.78	-3.74	-.13	.44	-4.33	-.39	-.30		.04	.04	.032
		20.3	-14.83	70.78	3.74	-.11	.15	-4.33	-.39	-.40		.02	.02	.036
504- 505	105- 1	0.0	.51	-.17	.91	.02	.00	-.14	.04	.03		.01	.01	.003
		3.8	.51	-.17	.08	.02	.00	-.14	.04	.01		.01	.01	.002
		7.6	.51	-.16	-.75	.02	.00	-.14	.04	.03		.01	.01	.003
		11.4	.51	-.16	-1.58	.02	.00	-.14	.04	.05		.01	.01	.004
		15.2	.51	-.16	-2.40	.02	.00	-.14	.04	.08		.01	.01	.005
504- 506	165- 1	0.0	-7.64	.32	-19.37	-.27	.04	3.05	-.25	-.17		.03	.03	.021
		3.8	-7.64	2.20	-7.09	-.27	.04	3.05	-.25	-.07		.03	.03	.017
		7.6	-7.64	4.08	5.20	-.27	.04	3.05	-.25	-.06		.03	.03	.017
		11.4	-7.64	5.96	17.48	-.27	.04	3.05	-.25	-.17		.03	.03	.021
		15.2	-7.64	7.84	29.77	-.27	.04	3.05	-.25	-.28		.03	.03	.026
505- 506	165- 1	0.0	1.90	2.20	-7.45	-.18	.04	-2.34	.06	.07		.02	.02	.006
		3.8	1.90	3.98	.95	-.18	.04	-2.34	.06	.04		.02	.02	.004
		7.6	1.90	5.76	9.36	-.18	.04	-2.34	.06	.10		.02	.02	.007
		11.4	1.90	7.54	17.76	-.18	.04	-2.34	.06	.17		.02	.02	.010
		15.2	1.90	9.32	26.16	-.18	.04	-2.34	.06	.25		.02	.02	.013
506- 606	JL5- 1	0.0	111.20	56.10	34.28	-.49	1.43	-3.90	.78	.04		.02	.02	.038
		1.5	111.20	82.19	43.15	-.49	1.43	-3.90	.78	.06		.02	.02	.038
		3.0	111.20	108.28	52.02	-.49	1.43	-3.90	.78	.08		.02	.02	.039
		4.6	111.20	134.36	60.89	-.49	1.43	-3.90	.78	.09		.02	.02	.040
		6.1	111.20	160.44	69.75	-.47	1.41	-3.90	.78	.11		.02	.02	.041
505- 624	200- 1	0.0	10.12	16.65	98.97	.65	-.10	4.92	.27	.56		.06	.06	.036
		5.1	10.12	10.48	47.06	.65	-.10	4.92	.27	.27		.06	.06	.024
		10.1	10.12	4.13	-4.46	.60	-.10	4.92	.27	.03		.06	.06	.014
		15.2	10.13	-1.65	-45.22	.54	-.09	4.92	.27	.25		.04	.04	.023
		20.2	10.14	-7.29	-70.61	.29	-.09	4.92	.27	.40		.03	.03	.029
510- 710	P1- 1	0.0	4.17	-5.50	-165.00	1.59	.56	-12.05	.02	.08		.02	.02	.004
		6.3	4.17	38.64	-285.72	1.59	.56	-12.05	.02	.13		.02	.02	.007
		12.7	4.17	82.77	-406.43	1.59	.56	-12.05	.02	.19		.02	.02	.009
		19.0	4.17	126.91	-527.15	1.59	.56	-12.05	.02	.25		.02	.02	.012
		25.3	4.17	171.05	-647.87	1.59	.56	-12.05	.02	.31		.02	.02	.014
511- 711	P1- 1	0.0	114.39	-43.93	42.59	-1.80	-1.65	26.63	.52	.03		.03	.03	.025
		6.3	114.39	-169.74	179.08	-1.80	-1.65	26.63	.52	.12		.03	.03	.029
		12.7	114.39	-295.55	315.57	-1.80	-1.65	26.63	.52	.20		.03	.03	.032
		19.0	114.39	-421.36	452.06	-1.80	-1.65	26.63	.52	.29		.03	.03	.036
		25.3	114.39	-547.17	588.55	-1.80	-1.65	26.63	.52	.38		.03	.03	.040

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
512- 712	P1- 1	0.0	-117.08	94.41	79.42	.25	1.00	30.80	-.53	-.06		.02	.02	.028
		6.3	-117.08	170.14	60.50	.25	1.00	30.80	-.53	-.08		.02	.02	.029
		12.7	-117.08	245.87	41.58	.25	1.00	30.80	-.53	-.12		.02	.02	.031
		19.0	-117.08	321.59	22.65	.25	1.00	30.80	-.53	-.15		.02	.02	.032
		25.3	-117.08	397.32	3.73	.25	1.00	30.80	-.53	-.19		.02	.02	.034
601- 621	JL6- 1	0.0	-7.74	47.65	-311.56	3.18	.84	113.36	-.05	-.20		.08	.08	.011
		1.5	-7.74	63.04	-366.43	2.84	.85	113.36	-.05	-.23		.08	.08	.012
		3.0	-7.74	78.60	-415.14	2.50	.86	113.36	-.05	-.27		.07	.07	.014
		4.6	-7.74	94.37	-457.86	2.18	.87	113.36	-.05	-.29		.07	.07	.015
		6.1	-7.74	110.29	-495.18	1.73	.88	113.36	-.05	-.32		.06	.06	.016
603- 623	JL6- 1	0.0	-97.64	-153.04	179.54	-2.34	-2.26	-115.50	-.68	-.15		.08	.08	.038
		1.5	-97.72	-191.94	220.86	-2.19	-2.00	-115.50	-.68	-.18		.08	.08	.040
		3.0	-97.80	-226.09	259.44	-2.04	-1.74	-115.50	-.68	-.22		.07	.07	.041
		4.6	-97.88	-255.54	295.39	-1.90	-1.49	-115.50	-.68	-.25		.07	.07	.042
		6.1	-97.99	-280.72	329.02	-1.71	-1.13	-115.50	-.69	-.27		.06	.06	.043
605- 626	JL6- 1	0.0	111.19	160.44	69.74	-.47	1.77	-4.13	.78	.11		.03	.03	.041
		1.5	111.28	190.20	75.85	-.31	1.50	-4.13	.78	.13		.02	.02	.041
		3.0	111.37	215.06	80.91	-.14	1.23	-4.13	.78	.14		.02	.02	.042
		4.6	111.45	235.14	81.95	.03	.97	-4.13	.78	.16		.01	.01	.043
		6.1	111.55	250.97	80.24	.25	.62	-4.13	.78	.17		.01	.01	.043
621- 651	JL6- 1	0.0	-7.74	107.94	-495.11	1.66	.86	113.97	-.05	-.32		.06	.06	.016
		1.5	-7.74	123.35	-524.19	1.33	.85	113.97	-.05	-.34		.06	.06	.017
		3.0	-7.75	136.38	-543.73	.82	.81	113.97	-.05	-.35		.05	.05	.017
		4.6	-7.75	153.01	-554.04	.32	.79	113.97	-.05	-.36		.05	.05	.016
		6.1	-7.75	167.20	-555.44	-.16	.77	113.97	-.05	-.36		.05	.05	.018
622- 703	200- 1	0.0	7.50	-36.56	70.49	-.18	-.05	-3.18	.20	.44		.02	.02	.028
		5.4	7.51	-32.77	68.57	.24	.16	-3.18	.20	.43		.02	.02	.027
		10.9	7.53	-15.15	38.84	.66	.38	-3.18	.20	.23		.05	.05	.019
		16.3	7.55	16.25	-17.07	1.04	.59	-3.18	.20	.13		.07	.07	.015
		21.8	7.54	61.35	-96.51	1.38	.79	-3.18	.20	.64		.09	.09	.036
623- 653	JL6- 1	0.0	-97.96	-281.69	327.30	-1.66	-1.36	-116.19	-.69	-.27		.07	.07	.043
		1.5	-97.82	-303.47	355.55	-1.42	-.99	-116.19	-.68	-.29		.06	.06	.044
		3.0	-97.69	-317.97	379.11	-1.17	-.61	-116.19	-.68	-.31		.05	.05	.045
		4.6	-97.57	-325.64	398.14	-.92	-.24	-116.19	-.68	-.32		.05	.05	.045
		6.1	-97.45	-326.71	412.85	-.69	.12	-116.19	-.68	-.33		.05	.05	.046
624- 701	200- 1	0.0	10.14	-7.28	-70.61	.29	-.09	4.90	.27	.40		.03	.03	.029
		5.5	10.13	-11.18	-74.56	-.15	-.03	4.90	.27	.42		.02	.02	.030
		11.0	10.14	-10.64	-49.73	-.58	.05	4.90	.27	.28		.04	.04	.026
		16.5	10.17	-4.77	1.62	-.97	.14	4.90	.27	.03		.07	.07	.014
		21.9	10.18	7.61	78.10	-1.35	.25	4.90	.27	.44		.09	.09	.031

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
625- 706	200- 1	0.0	-14.83	70.78	3.77	-.10	.15	-4.30	-.39	-.40		.02	.02	.036
		5.5	-14.84	65.54	8.96	-.05	-.30	-4.30	-.39	-.37		.03	.03	.035
		11.0	-14.85	31.57	11.02	-.01	-.73	-4.30	-.39	-.19		.05	.05	.028
		16.4	-14.86	-29.67	11.43	-.00	-1.14	-4.30	-.39	-.18		.07	.07	.027
		21.9	-14.86	-116.94	11.22	.01	-1.50	-4.30	-.39	-.66		.09	.09	.047
625- 656	JL6- 1	0.0	111.52	250.63	80.04	.18	.55	-4.00	.78	.17		.01	.01	.043
		1.5	111.38	256.90	74.51	.42	.14	-4.00	.78	.17		.01	.01	.043
		3.0	111.24	255.92	64.62	.66	-.25	-4.00	.78	.17		.01	.01	.043
		4.6	111.11	247.90	50.42	.89	-.63	-4.00	.78	.16		.02	.02	.043
		6.1	110.98	233.02	31.99	1.12	-1.00	-4.00	.78	.15		.02	.02	.042
651- 701	JL6- 1	0.0	-8.52	164.32	-524.15	-4.56	-.51	190.08	-.06	-.35		.12	.12	.017
		1.8	-8.52	153.68	-421.26	-5.10	-.49	190.08	-.06	-.28		.13	.13	.015
		3.5	-8.51	143.63	-307.01	-5.63	-.46	190.08	-.06	-.21		.14	.14	.012
		5.3	-8.51	134.14	-181.77	-6.15	-.44	190.08	-.06	-.14		.15	.15	.009
		7.1	-8.51	125.05	-45.89	-6.65	-.42	190.08	-.06	-.08		.15	.15	.006
653- 703	JL6- 1	0.0	-104.62	-328.12	421.96	2.39	1.88	-129.94	-.73	-.34		.08	.08	.048
		1.8	-104.62	-282.96	368.39	2.64	2.36	-129.94	-.73	-.29		.09	.09	.047
		3.5	-104.61	-227.91	309.50	2.89	2.81	-129.94	-.73	-.24		.10	.10	.044
		5.3	-104.61	-163.33	245.50	3.12	3.25	-129.94	-.73	-.19		.10	.10	.042
		7.1	-104.61	-89.47	176.50	3.36	3.68	-129.94	-.73	-.12		.11	.11	.039
656- 706	JL6- 1	0.0	110.98	233.02	31.99	1.12	-1.05	-3.98	.78	.15		.02	.02	.042
		1.8	110.98	205.75	5.06	1.40	-1.51	-3.98	.78	.13		.03	.03	.041
		3.5	110.98	168.91	-27.72	1.67	-1.95	-3.98	.78	.11		.04	.04	.040
		5.3	110.98	122.86	-66.17	1.94	-2.38	-3.98	.78	.09		.04	.04	.040
		7.1	110.98	67.60	-110.10	2.19	-2.80	-3.98	.78	.08		.05	.05	.039
701- 702	137- 1	0.0	10.24	-4.94	12.19	-.17	.11	-2.32	.53	.23		.04	.04	.034
		4.7	10.24	-.13	16.71	.01	.07	-2.32	.53	.29		.03	.03	.037
		9.4	10.24	2.09	10.67	.20	.04	-2.32	.53	.19		.04	.04	.033
		14.1	10.24	4.20	-5.92	.39	.02	-2.32	.53	.13		.06	.06	.030
		18.8	10.24	5.05	-33.08	.58	.01	-2.32	.53	.59		.08	.08	.049
701- 704	137- 1	0.0	-1.25	-22.71	10.71	-.22	.25	-1.06	-.06	-.44		.04	.04	.023
		4.7	-1.24	-9.83	17.27	-.02	.21	-1.06	-.06	-.35		.03	.03	.019
		9.4	-1.23	.42	12.63	.18	.16	-1.06	-.06	-.22		.03	.03	.014
		14.1	-1.24	8.02	-2.64	.36	.11	-1.06	-.06	-.15		.05	.05	.011
		18.8	-1.24	12.99	-27.98	.54	.06	-1.06	-.06	-.54		.07	.07	.027
701- 801	JL7- 1	0.0	8.53	66.73	-77.48	2.94	-.50	56.24	.12	.13		.12	.12	.011
		7.1	8.55	28.62	-250.02	1.16	-.40	56.24	.12	.32		.07	.07	.019
		14.2	8.57	-1.11	-280.65	-.41	-.31	56.24	.12	.36		.05	.05	.021
		21.3	8.58	-24.64	-185.72	-1.80	-.25	56.24	.12	.24		.09	.09	.016
		28.4	8.59	-42.50	21.31	-3.04	-.17	56.24	.12	.06		.12	.12	.008

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LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y	Z -------KSI-------	Y SHEAR STRESS	Z SHEAR STRESS -------/	COMB. UNITY CHECK
701- 806	200- 1	0.0	-18.34	-64.09	-110.71	-1.46	.73	-3.77	-.48	-.72		.10	.10	.060
		12.5	-18.34	14.74	42.90	-.61	.33	-3.77	-.48	-.25		.05	.05	.040
		25.1	-18.37	59.52	83.31	.06	.01	-3.77	-.48	-.52		.01	.01	.051
		37.6	-18.34	18.97	26.46	.68	-.27	-3.77	-.48	-.18		.05	.05	.037
		50.2	-18.32	-45.61	-118.77	1.23	-.56	-3.77	-.48	-.71		.08	.08	.059
702- 703	137- 1	0.0	11.19	4.94	-21.48	-.49	-.06	2.29	.58	.39		.07	.07	.043
		4.7	11.19	1.35	.75	-.30	-.06	2.29	.58	.03		.05	.05	.028
		9.4	11.19	-2.24	12.41	-.11	-.06	2.29	.58	.22		.03	.03	.036
		14.1	11.19	-5.82	13.52	.07	-.06	2.29	.58	.26		.03	.03	.038
		18.8	11.19	-9.41	4.07	.26	-.06	2.29	.58	.18		.05	.05	.035
702- 704	107- 1	0.0	-.13	-2.70	1.92	.01	.03	.22	-.01	-.11		.01	.01	.005
		4.7	-.13	-.88	1.38	.01	.03	.22	-.01	-.05		.01	.01	.003
		9.4	-.13	.93	.85	.01	.03	.22	-.01	-.04		.01	.01	.002
		14.1	-.13	2.52	.31	.01	.02	.22	-.01	-.09		.01	.01	.004
		18.8	-.13	2.80	-.22	.01	-.01	.22	-.01	-.09		.01	.01	.005
702- 705	107- 1	0.0	-1.34	-2.40	-13.52	-.41	.04	-.17	-.11	-.46		.07	.07	.026
		4.7	-1.33	.00	5.63	-.20	.04	-.17	-.11	-.12		.04	.04	.012
		9.4	-1.31	1.74	9.01	.01	.02	-.17	-.11	-.31		.01	.01	.019
		14.1	-1.30	2.16	2.60	.22	-.01	-.17	-.11	-.11		.04	.04	.011
		18.8	-1.29	.60	-15.57	.43	-.05	-.17	-.11	-.52		.08	.08	.028
703- 705	137- 1	0.0	-7.13	-13.32	-25.76	-.20	.06	-1.94	-.37	-.51		.04	.04	.046
		4.7	-7.13	-8.95	-14.27	-.20	.09	-1.94	-.37	-.30		.04	.04	.037
		9.4	-7.13	-3.27	-2.76	-.20	.11	-1.94	-.37	-.06		.04	.04	.026
		14.1	-7.13	2.64	8.71	-.20	.11	-1.94	-.37	-.16		.04	.04	.031
		18.8	-7.13	8.55	20.20	-.20	.11	-1.94	-.37	-.39		.04	.04	.041
703- 801	200- 1	0.0	-18.49	-45.42	138.69	1.66	.36	3.94	-.49	-.82		.10	.10	.064
		12.5	-18.48	-1.90	-39.72	.74	.22	3.94	-.49	-.22		.05	.05	.039
		25.1	-18.48	19.30	-93.93	-.00	.07	3.94	-.49	-.54		.01	.01	.052
		37.6	-18.49	17.58	-43.37	-.65	-.09	3.94	-.49	-.26		.05	.05	.041
		50.2	-18.49	-7.51	97.73	-1.21	-.25	3.94	-.49	-.55		.08	.08	.053
703- 803	JL7- 1	0.0	-90.45	-112.60	167.39	-.80	-2.33	29.08	-1.28	-.26		.09	.09	.073
		7.1	-90.46	-245.26	199.83	.02	-.82	29.08	-1.28	-.40		.04	.04	.079
		14.2	-90.47	-250.52	167.46	.72	.48	29.08	-1.28	-.39		.04	.04	.079
		21.3	-90.49	-167.93	78.99	1.54	1.62	29.08	-1.28	-.24		.08	.08	.072
		28.4	-90.49	14.06	-58.95	1.89	2.64	29.08	-1.28	-.08		.11	.11	.066
704- 705	107- 1	0.0	1.39	-.67	-15.36	-.39	.08	.13	.12	.51		.07	.07	.027
		4.7	1.39	2.47	1.27	-.20	.03	.13	.12	.09		.04	.04	.009
		9.4	1.39	2.97	7.35	-.01	-.01	.13	.12	.26		.01	.01	.017
		14.1	1.39	.83	2.86	.17	-.06	.13	.12	.10		.03	.03	.010
		18.8	1.39	-3.95	-12.18	.36	-.11	.13	.12	.43		.07	.07	.023

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
704- 706	137- 1	0.0	-2.34	14.42	-12.84	-.36	-.03	.83	-.12	-.34		.04	.04	.022
		4.7	-2.35	11.36	2.48	-.19	-.08	.83	-.12	-.20		.03	.03	.017
		9.4	-2.36	5.00	8.30	-.02	-.15	.83	-.12	-.17		.02	.02	.015
		14.1	-2.37	-5.32	4.62	.15	-.22	.83	-.12	-.12		.04	.04	.013
		18.8	-2.38	-20.26	-8.56	.52	-.31	.83	-.12	-.39		.05	.05	.025
705- 706	137- 1	0.0	-9.15	10.80	-7.56	-.08	-.05	.82	-.48	-.23		.02	.02	.041
		4.7	-9.15	7.75	-3.14	-.08	-.06	.82	-.48	-.15		.02	.02	.038
		9.4	-9.15	4.00	1.28	-.08	-.08	.82	-.48	-.07		.02	.02	.035
		14.1	-9.15	-1.05	5.70	-.08	-.11	.82	-.48	-.10		.02	.02	.036
		18.8	-9.15	-6.08	10.11	-.08	-.15	.82	-.48	-.23		.02	.02	.041
706- 803	200- 1	0.0	32.56	106.56	-34.02	-.16	-1.02	-1.30	.86	.65		.06	.06	.066
		12.5	32.59	-11.72	-12.44	-.13	-.55	-1.30	.86	.10		.03	.03	.044
		25.1	32.61	-59.65	4.26	-.09	-.08	-1.30	.86	.33		.01	.01	.054
		37.6	32.62	-37.25	16.13	-.07	.38	-1.30	.86	.23		.02	.02	.049
		50.2	32.59	52.97	26.09	-.08	.81	-1.30	.86	.33		.05	.05	.054
706- 806	JL7- 1	0.0	85.23	37.22	-103.47	-2.06	2.64	-44.00	1.21	.14		.12	.12	.062
		7.1	85.24	197.20	34.33	-1.19	1.14	-44.00	1.21	.25		.07	.07	.067
		14.2	85.25	236.20	102.42	-.42	-.20	-44.00	1.21	.35		.04	.04	.070
		21.3	85.25	167.89	107.06	.30	-1.36	-44.00	1.21	.25		.07	.07	.066
		28.4	85.24	4.27	54.52	.92	-2.44	-44.00	1.21	.07		.10	.10	.059
710- 810	P2- 1	0.0	4.17	170.09	-648.12	-.62	-.68	-11.84	.02	.26		.01	.01	.013
		7.1	4.17	112.43	-594.99	-.62	-.68	-11.84	.02	.25		.01	.01	.011
		14.2	4.17	54.78	-541.86	-.62	-.68	-11.84	.02	.23		.01	.01	.010
		21.3	4.17	-2.88	-488.73	-.62	-.68	-11.84	.02	.20		.01	.01	.009
		28.4	4.17	-60.53	-435.59	-.62	-.68	-11.84	.02	.18		.01	.01	.008
711- 811	P2- 1	0.0	114.38	-548.04	567.76	1.34	.36	26.27	.46	.33		.02	.02	.035
		7.1	114.38	-517.51	473.47	1.34	.36	26.27	.46	.29		.02	.02	.033
		14.2	114.38	-486.98	359.18	1.34	.36	26.27	.46	.25		.02	.02	.032
		21.3	114.38	-456.45	244.89	1.34	.36	26.27	.46	.22		.02	.02	.030
		28.4	114.38	-425.92	130.60	1.34	.36	26.27	.46	.19		.02	.02	.029
712- 812	P2- 1	0.0	-117.08	397.32	3.74	-.79	.24	30.80	-.47	-.17		.01	.01	.030
		7.1	-117.08	417.69	70.68	-.79	.24	30.80	-.47	-.18		.01	.01	.030
		14.2	-117.08	438.05	137.62	-.79	.24	30.80	-.47	-.19		.01	.01	.031
		21.3	-117.08	458.42	204.55	-.79	.24	30.80	-.47	-.21		.01	.01	.032
		28.4	-117.08	478.78	271.49	-.79	.24	30.80	-.47	-.23		.01	.01	.033
801- 802	148- 1	0.0	.81	12.37	21.45	-.14	-.07	-1.05	.04	.36		.02	.02	.017
		5.7	.81	7.88	25.09	.03	-.07	-1.05	.04	.38		.01	.01	.018
		11.4	.81	3.38	17.05	.20	-.07	-1.05	.04	.25		.03	.03	.012
		17.1	.81	-1.11	-2.69	.37	-.07	-1.05	.04	.04		.08	.08	.004
		22.8	.81	-5.60	-34.10	.54	-.07	-1.05	.04	.50		.06	.06	.023

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
801- 804	14B- 1	0.0	-7.00	-5.48	25.82	-.04	.01	-3.21	-.33	-.38		.03	.03	.040
		5.7	-6.99	-4.57	24.24	.09	.01	-3.21	-.33	-.36		.03	.03	.039
		11.4	-6.98	-3.66	13.97	.21	.01	-3.21	-.33	-.21		.04	.04	.032
		17.1	-6.98	-2.75	-5.00	.34	.01	-3.21	-.33	-.08		.06	.06	.027
		22.8	-6.97	-1.84	-32.67	.47	.01	-3.21	-.33	-.47		.07	.07	.043
801- 901	JL8- 1	0.0	-13.66	15.47	15.26	2.12	-.29	-19.99	-.19	-.03		.07	.07	.011
		8.1	-13.65	-7.63	-129.14	.68	-.19	-19.99	-.19	-.16		.04	.04	.016
		16.2	-13.63	-23.15	-161.47	-.19	-.13	-19.99	-.19	-.21		.02	.02	.016
		24.3	-13.63	-32.97	-96.85	-1.12	-.08	-19.99	-.19	-.13		.04	.04	.015
		32.4	-13.62	-36.71	54.48	-1.98	-.05	-19.99	-.19	-.06		.07	.07	.013
801- 903	20U- 1	0.0	21.32	59.64	-54.12	-.84	-.47	-5.67	.56	.45		.07	.07	.045
		14.9	21.39	-4.24	46.66	-.31	-.25	-5.67	.56	.26		.04	.04	.037
		29.8	21.46	-28.90	62.39	.11	-.03	-5.67	.56	.38		.02	.02	.042
		44.7	21.52	-14.89	12.88	.43	.19	-5.67	.57	.11		.04	.04	.031
		59.6	21.58	37.45	-89.43	.72	.40	-5.67	.57	.54		.06	.06	.049
802- 803	14B- 1	0.0	1.66	-4.03	-21.38	-.41	-.02	2.49	.08	.31		.06	.06	.017
		5.7	1.66	-5.12	.85	-.24	-.01	2.49	.08	.06		.04	.04	.007
		11.4	1.66	-5.23	11.39	-.07	.01	2.49	.08	.18		.02	.02	.011
		17.1	1.66	-3.39	10.25	.10	.05	2.49	.08	.16		.03	.03	.010
		22.8	1.66	1.36	-2.58	.27	.10	2.49	.08	.04		.05	.05	.005
802- 804	10B- 1	0.0	-.01	-.20	-.69	-.00	-.06	.91	-.00	-.02		.03	.03	.001
		5.7	-.01	-2.62	-.53	-.00	-.01	.91	-.00	-.09		.02	.02	.004
		11.4	-.01	-2.12	-.36	-.00	.02	.91	-.00	-.07		.02	.02	.003
		17.1	-.01	.33	-.19	-.00	.05	.91	-.00	-.01		.02	.02	.001
		22.8	-.01	3.76	-.02	-.00	.05	.91	-.00	-.13		.02	.02	.005
802- 805	10B- 1	0.0	-1.24	-2.96	-12.02	-.26	.01	-.70	-.10	-.41		.05	.05	.024
		5.7	-1.24	-2.00	1.14	-.13	.01	-.70	-.10	-.08		.03	.03	.010
		11.4	-1.23	-1.04	5.60	-.00	.01	-.70	-.10	-.19		.01	.01	.014
		17.1	-1.22	-.08	1.37	.13	.01	-.70	-.10	-.05		.03	.03	.008
		22.8	-1.21	.88	-11.57	.25	.01	-.70	-.10	-.39		.05	.05	.023
803- 805	14B- 1	0.0	6.42	-9.07	-15.41	-.08	-.05	-.36	.30	.26		.01	.01	.025
		5.7	6.42	-10.90	-9.80	-.08	-.00	-.36	.30	.21		.01	.01	.023
		11.4	6.42	-9.80	-4.19	-.08	.03	-.36	.30	.15		.01	.01	.021
		17.1	6.42	-6.76	1.41	-.08	.05	-.36	.30	.10		.01	.01	.016
		22.8	6.42	-2.74	7.02	-.08	.06	-.36	.30	.11		.01	.01	.019
803- 903	JL8- 1	0.0	-51.34	-7.92	-21.98	-.61	-1.43	-15.55	-.73	-.03		.06	.06	.037
		8.1	-51.33	-96.62	30.10	-.27	-.43	-15.55	-.73	-.13		.02	.02	.041
		16.2	-51.35	-97.12	34.19	.18	.40	-15.55	-.73	-.13		.02	.02	.041
		24.3	-51.32	-23.33	-1.60	.55	1.10	-15.55	-.73	-.03		.04	.04	.037
		32.4	-51.30	114.07	-71.87	.89	1.71	-15.55	-.73	-.17		.06	.06	.043

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
803- 906	200- 1	0.0	-39.67	-74.94	-17.04	.01	.44	.91	-1.04	-.43		.03	.03	.088
		14.9	-39.64	-8.01	-18.18	-.01	.29	.91	-1.04	-.11		.02	.02	.074
		29.8	-39.66	25.76	-10.70	-.08	.10	.91	-1.04	-.16		.01	.01	.076
		44.7	-39.70	25.15	8.79	-.14	-.10	.91	-1.04	-.15		.01	.01	.076
		59.6	-39.73	-10.70	40.37	-.21	-.30	.91	-1.04	-.23		.02	.02	.080
804- 805	108- 1	0.0	1.12	1.76	-9.37	-.22	-.01	-.05	.09	.32		.04	.04	.018
		5.7	1.12	1.28	1.89	-.11	-.01	-.05	.09	.08		.02	.02	.008
		11.4	1.12	.81	5.36	.01	-.01	-.05	.09	.18		.00	.00	.012
		17.1	1.12	.34	1.03	.12	-.01	-.05	.09	.04		.02	.02	.006
		22.8	1.12	-.13	-11.10	.23	-.01	-.05	.09	.37		.04	.04	.020
804- 806	148- 1	0.0	-7.73	-1.59	-23.32	-.38	.07	2.04	-.36	-.34		.05	.05	.040
		5.7	-7.72	3.22	-1.57	-.25	.07	2.04	-.36	-.05		.04	.04	.028
		11.4	-7.71	7.05	11.47	-.13	.04	2.04	-.36	-.19		.03	.03	.034
		17.1	-7.70	8.94	15.82	-.00	.01	2.04	-.36	-.26		.02	.02	.037
		22.8	-7.69	7.90	11.47	.13	-.04	2.04	-.36	-.20		.03	.03	.034
805- 806	148- 1	0.0	4.84	-2.08	-15.65	-.15	.07	-1.34	.23	.23		.03	.03	.020
		5.7	4.84	1.79	-5.23	-.15	.07	-1.34	.23	.08		.03	.03	.014
		11.4	4.84	6.46	5.19	-.15	.07	-1.34	.23	.12		.03	.03	.016
		17.1	4.84	11.13	15.61	-.15	.07	-1.34	.23	.28		.03	.03	.022
		22.8	4.84	15.80	26.03	-.15	.07	-1.34	.23	.44		.03	.03	.029
805- 901	200- 1	0.0	22.65	65.43	84.14	.91	-.39	3.99	.60	.60		.06	.06	.053
		14.9	22.60	8.05	-32.57	.42	-.25	3.99	.59	.19		.04	.04	.035
		29.8	22.59	-20.70	-69.14	-.00	-.07	3.99	.59	.40		.02	.02	.044
		44.7	22.59	-18.64	-31.89	-.41	.10	3.99	.59	.21		.03	.03	.036
		59.6	22.58	14.29	79.09	-.83	.27	3.99	.59	.45		.06	.06	.046
806- 906	JL8- 1	0.0	63.00	37.16	1.20	-1.14	1.52	76.67	.89	.05		.10	.10	.043
		8.1	62.98	131.07	61.76	-.52	.43	76.67	.89	.20		.07	.07	.050
		16.2	62.98	125.05	105.13	.03	-.54	76.67	.89	.21		.06	.06	.050
		24.3	63.01	30.79	77.16	.53	-1.38	76.67	.89	.11		.09	.09	.046
		32.4	63.04	-142.21	1.57	1.02	-2.10	76.67	.89	.18		.12	.12	.049
810- 910	P2- 1	0.0	4.17	-60.05	-435.65	-1.12	-.15	-12.18	.02	.18		.01	.01	.008
		8.1	4.17	-74.64	-326.85	-1.12	-.15	-12.18	.02	.14		.01	.01	.007
		16.2	4.17	-89.23	-218.05	-1.12	-.15	-12.18	.02	.10		.01	.01	.005
		24.3	4.17	-103.83	-109.25	-1.12	-.15	-12.18	.02	.06		.01	.01	.003
		32.4	4.17	-118.42	-.45	-1.12	-.15	-12.18	.02	.05		.01	.01	.003
811- 911	P2- 1	0.0	114.38	-425.77	131.05	.82	1.81	26.44	.46	.19		.02	.02	.029
		8.1	114.38	-249.97	51.33	.82	1.81	26.44	.46	.11		.02	.02	.026
		16.2	114.38	-74.17	-28.40	.82	1.81	26.44	.46	.03		.02	.02	.022
		24.3	114.38	101.64	-108.12	.82	1.81	26.44	.46	.06		.02	.02	.024
		32.4	114.38	277.44	-187.85	.82	1.81	26.44	.46	.14		.02	.02	.027

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LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /----	BENDING STRESS Y	Z ----KSI----	Y SHEAR STRESS	Z SHEAR STRESS ----/	COMB. UNITY CHECK
812- 912	P2- 1	0.0	-117.07	478.78	271.48	.15	-1.68	30.92	-.47	-.23		.02	.02	.033
		8.1	-117.07	314.83	256.17	.16	-1.68	30.92	-.47	-.17		.02	.02	.030
		16.2	-117.07	150.87	240.87	.16	-1.68	30.92	-.47	-.12		.02	.02	.028
		24.3	-117.07	-13.09	225.57	.16	-1.68	30.92	-.47	-.09		.02	.02	.027
		32.4	-117.07	-177.05	210.27	.16	-1.68	30.92	-.47	-.11		.02	.02	.028
901- 902	169- 1	0.0	-3.99	8.24	26.12	-.09	-.02	-2.35	-.16	-.30		.02	.02	.025
		6.9	-3.99	6.31	24.26	.04	-.02	-2.35	-.16	-.32		.02	.02	.025
		13.7	-3.99	4.38	19.11	.18	-.02	-2.35	-.16	-.21		.03	.03	.021
		20.6	-3.99	2.46	-1.31	.32	-.02	-2.35	-.16	-.03		.04	.04	.013
		27.4	-3.99	.53	-33.01	.45	-.02	-2.35	-.16	-.36		.05	.05	.027
901- 904	169- 1	0.0	-10.49	-9.12	30.51	.00	.02	-2.06	-.43	-.35		.01	.01	.047
		6.9	-10.52	-7.09	26.45	.10	.02	-2.06	-.43	-.30		.02	.02	.045
		13.7	-10.54	-5.06	14.68	.19	.02	-2.06	-.43	-.17		.03	.03	.039
		20.6	-10.57	-3.03	-4.78	.28	.02	-2.06	-.43	-.06		.03	.03	.035
		27.4	-10.59	-1.00	-31.94	.38	.02	-2.06	-.44	-.35		.04	.04	.047
901-1001	JL9- 1	0.0	.11	-31.65	56.99	1.58	.02	-33.60	.00	.08		.07	.07	.004
		8.1	.11	-26.52	-57.60	.79	.05	-33.60	.00	.08		.04	.04	.004
		16.2	.12	-22.00	-95.62	.06	.09	-33.60	.00	.13		.02	.02	.005
		24.3	.13	-11.30	-69.18	-.66	.13	-33.60	.00	.09		.04	.04	.004
		32.4	.13	2.47	28.72	-1.34	.15	-33.60	.00	.04		.06	.06	.002
901-1002	180- 1	0.0	16.69	27.12	-8.81	-.32	-.30	-4.21	.61	.24		.05	.05	.038
		10.6	16.69	-.47	18.65	-.12	-.14	-4.21	.61	.16		.03	.03	.035
		21.1	16.68	-7.08	21.24	.07	.01	-4.21	.61	.19		.02	.02	.036
		31.7	16.63	.31	4.50	.19	.10	-4.21	.60	.04		.03	.03	.030
		42.2	16.60	15.93	-26.01	.29	.14	-4.21	.60	.26		.04	.04	.039
901-1004	180- 1	0.0	-18.87	-6.66	-8.53	-.26	.11	-2.97	-.69	-.09		.03	.03	.045
		10.6	-18.85	.65	15.05	-.12	.02	-2.97	-.69	-.13		.02	.02	.046
		21.1	-18.89	.65	20.93	.02	-.02	-2.97	-.69	-.18		.01	.01	.048
		31.7	-18.92	-4.44	9.09	.16	-.06	-2.97	-.69	-.09		.03	.03	.044
		42.2	-18.95	-14.57	-20.46	.30	-.10	-2.97	-.69	-.21		.04	.04	.050
902- 905	169- 1	0.0	-3.41	1.12	-20.37	-.31	-.04	1.51	-.14	-.22		.03	.03	.020
		6.9	-3.41	-2.15	.13	-.19	-.04	1.51	-.14	-.02		.02	.02	.011
		13.7	-3.41	-5.37	10.77	-.08	-.04	1.51	-.14	-.13		.02	.02	.016
		20.6	-3.41	-8.62	12.95	.02	-.04	1.51	-.14	-.17		.01	.01	.018
		27.4	-3.41	-11.86	8.08	.10	-.04	1.51	-.14	-.16		.02	.02	.017
902- 904	169- 1	0.0	-.09	-1.71	-1.42	-.01	.01	.95	-.01	-.07		.02	.02	.004
		6.9	-.09	-.86	-.94	-.01	.01	.95	-.01	-.04		.02	.02	.002
		13.7	-.09	-.01	-.45	-.01	.01	.95	-.01	-.02		.02	.02	.001
		20.6	-.09	.85	.04	-.01	.01	.95	-.01	-.03		.02	.02	.002
		27.4	-.09	1.70	.53	-.01	.01	.95	-.01	-.06		.02	.02	.003

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
902- 905	109- 1	0.0	-.90	-1.95	-11.21	-.19	.01	-.42	-.08	-.38		.04	.04	.021
		6.9	-.93	-1.49	.57	-.10	.01	-.42	-.08	-.05		.02	.02	.008
		13.7	-.95	-1.02	4.65	-.00	.01	-.42	-.08	-.16		.01	.01	.012
		20.6	-.98	-.56	1.03	.09	.01	-.42	-.08	-.04		.02	.02	.007
		27.4	-1.01	-.09	-10.29	.18	.01	-.42	-.08	-.34		.04	.04	.020
903- 905	169- 1	0.0	14.08	-14.89	-18.82	-.07	-.01	-.70	.58	.26		.01	.01	.038
		6.9	14.08	-13.45	-13.08	-.07	.04	-.70	.58	.21		.01	.01	.035
		13.7	14.08	-9.19	-7.33	-.07	.06	-.70	.58	.13		.01	.01	.032
		20.6	14.08	-4.46	-1.59	-.07	.06	-.70	.58	.05		.01	.01	.029
		27.4	14.08	.27	4.15	-.07	.06	-.70	.58	.05		.01	.01	.029
903-1002	180- 1	0.0	-16.80	-.90	23.97	.38	-.03	2.03	-.61	-.20		.04	.04	.045
		10.6	-16.79	-3.60	-11.01	.17	-.02	2.03	-.61	-.10		.02	.02	.040
		21.1	-16.77	-4.78	-19.85	-.02	-.00	2.03	-.61	-.17		.01	.01	.043
		31.7	-16.77	-4.28	-8.72	-.14	.01	2.03	-.61	-.08		.02	.02	.040
		42.2	-16.76	-2.77	16.25	-.25	.02	2.03	-.61	-.14		.03	.03	.042
905-1003	JL9- 1	0.0	-3.62	102.35	-74.84	-.74	-1.10	36.34	-.05	-.16		.06	.06	.009
		8.1	-3.61	22.05	-18.58	-.42	-.57	36.34	-.05	-.04		.04	.04	.004
		16.2	-3.62	-10.49	7.96	-.13	-.11	36.34	-.05	-.02		.03	.03	.003
		24.3	-3.63	-.08	8.70	.11	.31	36.34	-.05	-.01		.03	.03	.003
		32.4	-3.65	48.39	-12.16	.32	.67	36.34	-.05	-.06		.04	.04	.005
903-1005	180- 1	0.0	-31.73	-36.55	-8.43	.05	.32	3.21	-1.15	-.32		.04	.04	.082
		10.6	-31.71	-5.51	-11.50	.00	.17	3.21	-1.15	-.11		.03	.03	.073
		21.1	-31.69	7.57	-9.20	-.04	.03	3.21	-1.15	-.10		.02	.02	.073
		31.7	-31.67	2.71	-1.29	-.08	-.11	3.21	-1.15	-.03		.02	.02	.069
		42.2	-31.66	-20.10	12.16	-.13	-.25	3.21	-1.15	-.20		.03	.03	.077
904- 905	109- 1	0.0	.94	1.95	-6.69	-.13	-.01	-.44	.08	.23		.03	.03	.013
		6.9	.94	1.46	1.34	-.06	-.01	-.44	.08	.07		.02	.02	.006
		13.7	.94	.97	3.73	.01	-.01	-.44	.08	.13		.01	.01	.009
		20.6	.94	.49	.47	.07	-.01	-.44	.08	.02		.02	.02	.005
		27.4	.94	-.00	-8.42	.14	-.01	-.44	.08	.28		.03	.03	.015
904- 906	169- 1	0.0	-11.23	-1.57	-24.73	-.30	.04	1.79	-.46	-.27		.03	.03	.046
		6.9	-11.25	1.80	-4.23	-.20	.04	1.79	-.46	-.05		.03	.03	.036
		13.7	-11.28	5.18	8.57	-.11	.04	1.79	-.46	-.11		.02	.02	.039
		20.6	-11.30	8.55	13.66	-.02	.04	1.79	-.46	-.18		.01	.01	.042
		27.4	-11.33	11.92	11.04	.08	.04	1.79	-.47	-.18		.02	.02	.042
905- 906	169- 1	0.0	12.82	-.52	-14.56	-.11	.06	-.62	.53	.16		.01	.01	.031
		6.9	12.82	4.19	-5.49	-.11	.06	-.62	.53	.08		.01	.01	.028
		13.7	12.82	8.90	3.58	-.11	.06	-.62	.53	.10		.01	.01	.029
		20.6	12.82	13.61	12.66	-.11	.06	-.62	.53	.20		.01	.01	.033
		27.4	12.82	18.32	21.73	-.11	.06	-.62	.53	.31		.01	.01	.037

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
906-1004	180- 1	0.0	18.99	10.03	20.39	.50	-.05	-.12	.69	.19		.02	.02	.040
		10.6	19.01	4.99	-8.02	.15	-.03	-.12	.69	.08		.01	.01	.035
		21.1	19.02	2.30	-17.76	.00	-.01	-.12	.69	.15		.00	.00	.036
		31.7	19.04	1.97	-8.87	-.14	.01	-.12	.69	.08		.01	.01	.035
		42.2	19.05	3.98	18.68	-.29	.03	-.12	.69	.16		.02	.02	.039
906-1005	180- 1	0.0	31.86	23.26	-23.69	-.16	-.25	1.45	1.16	.28		.03	.03	.066
		10.6	31.84	-.19	-6.71	-.10	-.12	1.45	1.16	.06		.02	.02	.059
		21.1	31.82	-6.67	2.48	-.04	.02	1.45	1.16	.06		.01	.01	.056
		31.7	31.79	3.81	3.91	.02	.15	1.45	1.16	.05		.02	.02	.056
		42.2	31.77	31.24	-2.44	.08	.28	1.45	1.16	.27		.03	.03	.065
906-1006	JL9- 1	0.0	3.56	-88.16	38.39	-.74	1.47	12.36	.05	.12		.05	.05	.007
		8.1	3.58	19.40	87.60	-.28	.75	12.36	.05	.11		.03	.03	.007
		16.2	3.57	58.83	93.39	.15	.07	12.36	.05	.14		.01	.01	.008
		24.3	3.54	53.91	59.05	.56	-.58	12.36	.05	.09		.03	.03	.006
		32.4	3.52	-54.60	-14.75	.96	-1.24	12.36	.05	.07		.05	.05	.005
1010- 910	P3- 1	0.0	4.17	88.29	741.44	1.90	-.53	-12.16	.02	.31		.02	.02	.014
		8.1	4.17	56.61	556.17	1.90	-.53	-12.16	.02	.23		.02	.02	.011
		16.2	4.17	-15.06	370.89	1.90	-.53	-12.16	.02	.15		.02	.02	.007
		24.3	4.17	-66.74	185.62	1.90	-.53	-12.16	.02	.08		.02	.02	.004
		32.4	4.17	-118.42	.34	1.90	-.53	-12.16	.02	.05		.02	.02	.003
1011- 911	P3- 1	0.0	114.39	-748.57	-462.49	-1.67	2.64	26.54	.46	.37		.03	.03	.037
		8.1	114.39	-492.02	-299.97	-1.67	2.64	26.54	.46	.24		.03	.03	.031
		16.2	114.39	-235.48	-137.45	-1.67	2.64	26.54	.46	.11		.03	.03	.026
		24.3	114.39	21.07	25.07	-1.67	2.64	26.54	.46	.01		.03	.03	.022
		32.4	114.39	277.61	187.59	-1.67	2.64	26.54	.46	.14		.03	.03	.027
1012- 912	P3- 1	0.0	-117.08	680.52	-129.36	.21	-2.20	30.92	-.47	-.29		.02	.02	.035
		8.1	-117.08	466.13	-149.59	.21	-2.20	30.92	-.47	-.20		.02	.02	.032
		16.2	-117.08	251.73	-169.81	.21	-2.20	30.92	-.47	-.13		.02	.02	.028
		24.3	-117.08	37.34	-190.04	.21	-2.20	30.92	-.47	-.08		.02	.02	.027
		32.4	-117.08	-177.05	-210.27	.21	-2.20	30.92	-.47	-.11		.02	.02	.026
1001-1002	200- 1	0.0	-23.01	29.16	14.78	-.23	-.12	-.07	-.60	-.18		.01	.01	.050
		8.0	-23.01	16.03	28.79	-.07	-.12	-.07	-.60	-.19		.01	.01	.050
		16.0	-23.01	6.90	27.40	.09	-.12	-.07	-.60	-.16		.01	.01	.049
		24.0	-23.01	-4.22	11.26	.23	-.12	-.07	-.60	-.07		.01	.01	.045
		32.0	-23.01	-15.35	-16.43	.33	-.12	-.07	-.60	-.13		.02	.02	.048
1001-1004	200- 1	0.0	22.23	-29.46	23.09	-.11	.09	4.22	.58	.21		.02	.02	.036
		8.0	22.20	-20.77	28.44	-.00	.09	4.22	.58	.20		.02	.02	.035
		16.0	22.17	-12.09	23.26	.11	.09	4.22	.58	.15		.02	.02	.033
		24.0	22.14	-3.40	7.60	.22	.09	4.22	.58	.05		.02	.02	.029
		32.0	22.11	5.26	-18.60	.33	.09	4.22	.58	.11		.03	.03	.031

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
1002-1003	200- 1	0.0	-.48	3.47	-10.76	-.21	-.05	-7.37	-.01	-.06		.03	.03	.004
		8.0	-.48	-1.38	5.61	-.13	-.05	-7.37	-.01	-.03		.03	.03	.002
		16.0	-.48	-6.23	14.29	-.05	-.05	-7.37	-.01	-.09		.02	.02	.005
		24.0	-.48	-11.09	15.26	.03	-.05	-7.37	-.01	-.11		.02	.02	.005
		32.0	-.48	-15.94	8.54	.11	-.05	-7.37	-.01	-.10		.03	.03	.005
1002-1004	140- 1	0.0	-.02	-16.59	-1.08	-.00	.09	3.18	-.00	-.31		.04	.04	.013
		8.0	-.02	-8.08	-.70	-.00	.09	3.18	-.00	-.15		.04	.04	.006
		16.0	-.02	.43	-.31	-.00	.09	3.18	-.00	-.01		.04	.04	.000
		24.0	-.02	8.94	.07	-.00	.09	3.18	-.00	-.17		.04	.04	.007
		32.0	-.02	17.45	.45	-.00	.09	3.18	-.00	-.33		.04	.04	.014
1002-1005	140- 1	0.0	-1.31	-15.37	-9.33	-.14	.06	-1.23	-.08	-.34		.03	.03	.019
		8.0	-1.27	-9.12	.79	-.07	.06	-1.23	-.08	-.17		.02	.02	.012
		16.0	-1.23	-2.88	4.24	-.00	.06	-1.23	-.08	-.10		.02	.02	.009
		24.0	-1.19	3.37	1.02	.07	.06	-1.23	-.07	-.07		.02	.02	.007
		32.0	-1.15	9.62	-8.87	.14	.06	-1.23	-.07	-.25		.03	.03	.015
1003-1005	200- 1	0.0	24.17	-46.25	-29.31	-.10	.20	-1.40	.64	.31		.02	.02	.042
		8.0	24.17	-27.34	-19.73	-.10	.20	-1.40	.64	.19		.02	.02	.037
		16.0	24.17	-8.44	-10.15	-.10	.20	-1.40	.64	.07		.02	.02	.033
		24.0	24.17	10.46	-.58	-.10	.20	-1.40	.64	.06		.02	.02	.032
		32.0	24.17	29.36	9.00	-.10	.20	-1.40	.64	.17		.02	.02	.037
1004-1005	140- 1	0.0	1.42	9.44	-9.49	-.16	-.03	-1.32	.09	.25		.03	.03	.015
		8.0	1.42	6.49	1.72	-.08	-.03	-1.32	.09	.13		.02	.02	.009
		16.0	1.42	3.55	5.24	.00	-.03	-1.32	.09	.12		.02	.02	.009
		24.0	1.42	.61	1.05	.08	-.03	-1.32	.09	.02		.02	.02	.005
		32.0	1.42	-2.33	-10.83	.16	-.03	-1.32	.09	.21		.03	.03	.013
1004-1006	200- 1	0.0	-3.52	-10.46	-7.48	-.22	.08	-2.65	-.09	-.07		.02	.02	.010
		8.0	-3.55	-2.41	8.57	-.11	.08	-2.65	-.09	-.05		.01	.01	.009
		16.0	-3.58	5.65	14.09	-.00	.08	-2.65	-.09	-.08		.01	.01	.010
		24.0	-3.61	13.71	9.10	.11	.08	-2.65	-.09	-.09		.01	.01	.011
		32.0	-3.64	21.76	-6.41	.22	.08	-2.65	-.10	-.13		.02	.02	.012
1005-1006	200- 1	0.0	-18.97	-16.97	-7.89	-.08	.17	3.40	-.50	-.10		.02	.02	.039
		8.0	-18.97	-.83	-.66	-.08	.17	3.40	-.50	-.01		.02	.02	.035
		16.0	-18.97	15.31	6.57	-.08	.17	3.40	-.50	-.09		.02	.02	.039
		24.0	-18.97	31.45	13.80	-.08	.17	3.40	-.50	-.19		.02	.02	.043
		32.0	-18.97	47.59	21.03	-.08	.17	3.40	-.50	-.29		.02	.02	.047

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 4

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
101- 102	W16- 1	0.0	.01	-.05	-.39	-.00	.00	.00	.00	-.00	-.04	.00	.00	.002
		3.6	.01	-.03	-.25	-.00	.00	.00	.00	-.00	-.02	.00	.00	.001
		7.3	.01	-.01	-.11	-.00	.00	.00	.00	-.00	-.01	.00	.00	.000
		10.9	.01	.00	.03	-.00	.00	.00	.00	.00	.00	.00	.00	.000
		14.5	.01	.02	.17	-.00	.00	.00	.00	.00	.02	.00	.00	.001
101- 104	W16- 1	0.0	.00	-.05	-.39	-.00	.00	-.00	.00	-.00	-.04	.00	.00	.002
		3.6	.00	-.03	-.25	-.00	.00	-.00	.00	-.00	-.02	.00	.00	.001
		7.2	.00	-.02	-.11	-.00	.00	-.00	.00	-.00	-.01	.00	.00	.000
		10.9	.00	-.01	.03	-.00	.00	-.00	.00	-.00	.00	.00	.00	.000
		14.5	.00	.00	.17	-.00	.00	-.00	.00	.00	.02	.00	.00	.001
101- 201	UKL- 1	0.0	.00	.04	-.07	-.01	-.01	-.77	.00	.00		.00	.00	.000
		3.8	.00	-.33	.24	-.01	-.01	-.77	.00	.00		.00	.00	.000
		7.5	.00	-.71	.54	-.01	-.01	-.77	.00	.00		.00	.00	.000
		11.3	.00	-1.08	.85	-.01	-.01	-.77	.00	.00		.00	.00	.000
		15.0	.00	-1.45	1.15	-.01	-.01	-.77	.00	.00		.00	.00	.000
102- 103	W16- 1	0.0	.00	.02	.15	.00	.00	-.00	.00	.00	.01	.00	.00	.001
		3.6	.00	.04	.05	.00	.00	-.00	.00	.00	.00	.00	.00	.000
		7.3	.00	.05	-.05	.00	.00	-.00	.00	.00	-.01	.00	.00	.000
		10.9	.00	.07	-.16	.00	.00	-.00	.00	.00	-.01	.00	.00	.001
		14.5	.00	.09	-.26	.00	.00	-.00	.00	.00	-.02	.00	.00	.001
102- 104	W08- 1	0.0	-.00	-.00	.02	.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		3.6	-.00	-.00	.01	.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		7.2	-.00	-.00	.00	.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		10.9	-.00	-.00	-.01	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
		14.5	-.00	-.00	-.02	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
102- 105	W08- 1	0.0	.01	.00	-.01	-.00	.00	-.00	.00	.00	-.00	.00	.00	.000
		3.6	.01	.00	.00	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		7.2	.01	.00	.01	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		10.9	.01	.00	.02	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		14.5	.01	.00	.03	-.00	.00	-.00	.00	.00	.01	.00	.00	.000
103- 105	W16- 1	0.0	-.01	.12	.20	.00	-.00	.00	-.00	.00	.02	.00	.00	.001
		3.6	-.01	.09	.14	.00	-.00	.00	-.00	.00	.01	.00	.00	.001
		7.2	-.01	.05	.09	.00	-.00	.00	-.00	.00	.01	.00	.00	.000
		10.9	-.01	.02	.03	.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		14.5	-.01	-.01	-.03	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
103- 203	UKL- 1	0.0	-.00	-.11	-.15	.00	.00	.46	-.00	-.00		.00	.00	.000
		3.8	-.00	-.02	-.17	.00	.00	.46	-.00	-.00		.00	.00	.000
		7.5	-.00	.06	-.18	.00	.00	.46	-.00	-.00		.00	.00	.000
		11.3	-.00	.14	-.20	.00	.00	.46	-.00	-.00		.00	.00	.000
		15.0	-.00	.23	-.21	.00	.00	.46	-.00	-.00		.00	.00	.000

S T R A N M E M B E R D E T A I L R E P O R T

LOAD CONDITION NO. 4

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y	Z -------KSI-------	Y SHEAR STRESS	Z SHEAR STRESS -------/	COMB. UNITY CHECK
104- 105	M06- 1	0.0	-.01	.00	-.01	-.00	-.00	.00	-.00	.00	-.00	.00	.00	.000
		3.6	-.01	.00	.00	-.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		7.3	-.01	.00	.01	-.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		10.9	-.01	-.00	.02	-.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		14.5	-.01	-.00	.04	-.00	-.00	.00	-.00	-.00	.01	.00	.00	.000
104- 106	M18- 1	0.0	.01	-.00	.16	.00	.00	-.00	.00	-.00	.01	.00	.00	.001
		3.6	.01	.01	.05	.00	.00	-.00	.00	.00	.00	.00	.00	.000
		7.3	.01	.03	-.06	.00	.00	-.00	.00	.00	-.01	.00	.00	.000
		10.9	.01	.04	-.17	.00	.00	-.00	.00	.00	-.02	.00	.00	.001
		14.5	.01	.05	-.27	.00	.00	-.00	.00	.00	-.03	.00	.00	.001
105- 106	M18- 1	0.0	.00	-.01	.04	.00	-.00	-.00	.00	-.00	.00	.00	.00	.000
		3.6	.00	-.05	-.02	.00	-.00	-.00	.00	-.00	-.00	.00	.00	.000
		7.3	.00	-.08	-.09	.00	-.00	-.00	.00	-.00	-.01	.00	.00	.000
		10.9	.00	-.12	-.15	.00	-.00	-.00	.00	-.00	-.01	.00	.00	.001
		14.5	.00	-.15	-.22	.00	-.00	-.00	.00	-.00	-.02	.00	.00	.001
106- 206	URL- 1	0.0	.01	-.18	-.24	-.00	-.00	.74	.00	.00		.00	.00	.000
		3.8	.01	-.32	-.17	-.00	-.00	.74	.00	.00		.00	.00	.000
		7.5	.01	-.46	-.09	-.00	-.00	.74	.00	.00		.00	.00	.000
		11.3	.01	-.60	-.01	-.00	-.00	.74	.00	.00		.00	.00	.000
		15.0	.01	-.74	.06	-.00	-.00	.74	.00	.00		.00	.00	.000
201- 202	M18- 1	0.0	-.11	.05	-.41	-.00	.00	.00	-.01	.00	-.04	.00	.00	.002
		3.6	-.11	.04	-.26	-.00	.00	.00	-.01	.00	-.02	.00	.00	.002
		7.3	-.11	.04	-.11	-.00	.00	.00	-.01	.00	-.01	.00	.00	.001
		10.9	-.11	.05	.03	-.00	.00	.00	-.01	.00	.00	.00	.00	.001
		14.5	-.11	.05	.18	-.00	.00	.00	-.01	.00	.02	.00	.00	.001
201- 204	M18- 1	0.0	-.03	.14	-.41	-.00	-.00	-.00	-.00	.00	-.04	.00	.00	.002
		3.6	-.03	.11	-.26	-.00	-.00	-.00	-.00	.00	-.02	.00	.00	.001
		7.2	-.03	.08	-.12	-.00	-.00	-.00	-.00	.00	-.01	.00	.00	.001
		10.9	-.03	.05	.03	-.00	-.00	-.00	-.00	.00	.00	.00	.00	.000
		14.5	-.03	.05	.18	-.00	-.00	-.00	-.00	.00	.02	.00	.00	.001
201- 301	URL- 1	0.0	-.03	-1.46	1.26	.09	.02	-3.56	-.00	-.00		.00	.00	.000
		3.8	-.03	-.42	-2.77	.09	.02	-3.56	-.00	-.00		.00	.00	.000
		7.5	-.03	.61	-6.79	.09	.02	-3.56	-.00	-.01		.00	.00	.000
		11.3	-.03	1.65	-10.82	.09	.02	-3.56	-.00	-.02		.00	.00	.001
		15.0	-.03	2.69	-14.85	.09	.02	-3.56	-.00	-.02		.00	.00	.001
201- 303	120- 1	0.0	.05	.20	-.93	-.00	-.00	.18	.00	.02		.00	.00	.001
		8.2	.05	.06	-.82	-.00	-.00	.18	.00	.01		.00	.00	.001
		16.3	.05	-.08	-.70	-.00	-.00	.18	.00	.01		.00	.00	.001
		24.5	.05	-.21	-.58	-.00	-.00	.18	.00	.01		.00	.00	.001
		32.6	.05	-.35	-.47	-.00	-.00	.18	.00	.01		.00	.00	.001

S T R A N   M E M B E R   D E T A I L   R E P O R T

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y	Z ---KSI---	Y SHEAR STRESS	Z SHEAR STRESS -------/	COMB. UNITY CHECK
202- 203	W16- 1	0.0	-.11	.05	.17	.00	.00	-.00	-.01	.00	.02	.00	.00	.001
		3.6	-.11	.06	.06	.00	.00	-.00	-.01	.00	.01	.00	.00	.001
		7.3	-.11	.06	-.06	.00	.00	-.00	-.01	.00	-.01	.00	.00	.001
		10.9	-.11	.07	-.17	.00	.00	-.00	-.01	.00	-.02	.00	.00	.001
		14.5	-.11	.07	-.28	.00	.00	-.00	-.01	.00	-.03	.00	.00	.002
202- 204	W08- 1	0.0	.00	-.00	.02	.00	-.00	-.00	.00	-.00	.00	.00	.00	.000
		3.6	.00	-.00	.01	.00	-.00	-.00	.00	-.00	.00	.00	.00	.000
		7.2	.00	-.00	-.00	.00	-.00	-.00	.00	-.00	-.00	.00	.00	.000
		10.9	.00	-.00	-.01	.00	-.00	-.00	.00	-.00	-.00	.00	.00	.000
		14.5	.00	-.00	-.02	.00	-.00	-.00	.00	-.00	-.00	.00	.00	.000
202- 205	W08- 1	0.0	.01	.00	-.01	-.00	-.00	-.00	.00	.00	-.00	.00	.00	.000
		3.6	.01	.00	.00	-.00	-.00	-.00	.00	.00	.00	.00	.00	.000
		7.2	.01	.00	.01	-.00	-.00	-.00	.00	.00	.00	.00	.00	.000
		10.9	.01	.00	.03	-.00	-.00	-.00	.00	.00	.00	.00	.00	.000
		14.5	.01	.00	.04	-.00	-.00	-.00	.00	.00	.01	.00	.00	.000
203- 205	W18- 1	0.0	.07	.17	.22	.00	-.00	.00	.00	.00	.02	.00	.00	.001
		3.6	.07	.12	.15	.00	-.00	.00	.00	.00	.01	.00	.00	.001
		7.2	.07	.07	.09	.00	-.00	.00	.00	.00	.01	.00	.00	.001
		10.9	.07	.02	.02	.00	-.00	.00	.00	.00	.00	.00	.00	.000
		14.5	.07	-.03	-.04	.00	-.00	.00	.00	-.00	-.00	.00	.00	.000
203- 303	DRL- 1	0.0	-.02	.52	-.94	-.07	-.09	2.24	-.00	-.00		.00	.00	.000
		3.8	-.02	-3.41	2.32	-.07	-.09	2.24	-.00	-.01		.00	.00	.000
		7.5	-.02	-7.34	5.58	-.07	-.09	2.24	-.00	-.01		.00	.00	.001
		11.3	-.02	-11.27	8.84	-.07	-.09	2.24	-.00	-.02		.00	.00	.001
		15.0	-.02	-15.20	12.10	-.07	-.09	2.24	-.00	-.03		.00	.00	.001
203- 306	120- 1	0.0	.03	-.10	1.46	.01	.00	.05	.00	.03		.00	.00	.001
		8.2	.03	-.01	.72	.01	.00	.05	.00	.01		.00	.00	.001
		16.3	.03	.07	-.02	.01	.00	.05	.00	.00		.00	.00	.000
		24.5	.03	.15	-.76	.01	.00	.05	.00	.01		.00	.00	.001
		32.6	.03	.23	-1.50	.01	.00	.05	.00	.03		.00	.00	.001
204- 205	W08- 1	0.0	-.01	.00	-.01	-.00	-.00	.00	-.00	.00	-.00	.00	.00	.000
		3.6	-.01	.00	.00	-.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		7.3	-.01	.00	.02	-.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		10.9	-.01	-.00	.03	-.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		14.5	-.01	-.00	.04	-.00	-.00	.00	-.00	-.00	.01	.00	.00	.000
204- 206	W18- 1	0.0	-.03	.02	.16	.00	-.00	-.00	-.00	.00	.02	.00	.00	.001
		3.6	-.03	-.00	.05	.00	-.00	-.00	-.00	-.00	.00	.00	.00	.000
		7.3	-.03	-.03	-.06	.00	-.00	-.00	-.00	-.00	-.01	.00	.00	.000
		10.9	-.03	-.06	-.17	.00	-.00	-.00	-.00	-.00	-.02	.00	.00	.001
		14.5	-.03	-.08	-.28	.00	-.00	-.00	-.00	-.00	-.03	.00	.00	.001

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 4

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	Z ------KSI------	Y SHEAR STRESS	Z SHEAR STRESS ------/	COMB. UNITY CHECK
205- 206	M16- 1	0.0	.07	-.03	.03	.00	-.00	.00	.00	-.00	.00	.00	.00	.000
		3.6	.07	-.08	-.03	.00	-.00	.00	.00	-.00	-.00	.00	.00	.000
		7.3	.07	-.13	-.09	.00	-.00	.00	.00	-.00	-.01	.00	.00	.001
		10.9	.07	-.18	-.15	.00	-.00	.00	.00	-.00	-.01	.00	.00	.001
		14.5	.07	-.23	-.22	.00	-.00	.00	.00	-.00	-.02	.00	.00	.001
206- 301	120- 1	0.0	.01	.10	-.00	-.00	-.00	-.23	.00	.00		.00	.00	.000
		8.2	.01	.02	.36	-.00	-.00	-.23	.00	.01		.00	.00	.000
		16.3	.01	-.06	.72	-.00	-.00	-.23	.00	.01		.00	.00	.001
		24.5	.01	-.14	1.08	-.00	-.00	-.23	.00	.02		.00	.00	.001
		32.6	.01	-.21	1.44	-.00	-.00	-.23	.00	.03		.00	.00	.001
206- 306	URL- 1	0.0	.00	-1.03	-.24	-.05	.04	1.34	.00	.00		.00	.00	.000
		3.8	.00	.94	2.00	-.05	.04	1.34	.00	.00		.00	.00	.000
		7.5	.00	2.91	4.25	-.05	.04	1.34	.00	.01		.00	.00	.000
		11.3	.00	4.89	6.49	-.05	.04	1.34	.00	.01		.00	.00	.001
		15.0	.00	6.86	8.74	-.05	.04	1.34	.00	.02		.00	.00	.001
301- 303	123- 1	0.0	.34	-.30	-1.67	-.00	.00	-.12	.02	.03		.00	.00	.002
		7.3	.34	-.26	-1.29	-.00	.00	-.12	.02	.02		.00	.00	.002
		14.5	.34	-.22	-.90	-.00	.00	-.12	.02	.02		.00	.00	.002
		21.7	.34	-.18	-.52	-.00	.00	-.12	.02	.01		.00	.00	.001
		29.0	.34	-.14	-.14	-.00	.00	-.12	.02	.00		.00	.00	.001
301- 306	123- 1	0.0	.04	-.26	-1.50	-.00	.00	.15	.00	.03		.00	.00	.001
		7.2	.04	-.16	-1.20	-.00	.00	.15	.00	.02		.00	.00	.001
		14.5	.04	-.06	-.90	-.00	.00	.15	.00	.02		.00	.00	.001
		21.7	.04	.04	-.60	-.00	.00	.15	.00	.01		.00	.00	.001
		29.0	.04	.14	-.31	-.00	.00	.15	.00	.01		.00	.00	.000
301- 401	URL- 1	0.0	.08	3.59	-16.97	-.18	-.02	-9.34	.00	.03		.01	.01	.001
		7.1	.08	1.28	-2.00	-.18	-.02	-9.34	.00	.00		.01	.01	.000
		14.2	.08	-.63	12.97	-.18	-.02	-9.34	.00	.02		.01	.01	.001
		21.4	.08	-2.94	27.94	-.18	-.02	-9.34	.00	.04		.01	.01	.002
		28.5	.08	-5.04	42.91	-.18	-.02	-9.34	.00	.07		.01	.01	.003
303- 306	123- 1	0.0	-.26	.17	1.95	.01	-.00	-.10	-.01	-.03		.00	.00	.002
		7.2	-.26	.16	.97	.01	-.00	-.10	-.01	-.02		.00	.00	.002
		14.5	-.26	.15	.00	.01	-.00	-.10	-.01	-.00		.00	.00	.001
		21.7	-.26	.13	-.97	.01	-.00	-.10	-.01	-.02		.00	.00	.002
		29.0	-.26	.12	-1.94	.01	-.00	-.10	-.01	-.03		.00	.00	.002
303- 403	URL- 1	0.0	.01	-15.56	12.59	.17	.14	4.82	.00	.03		.01	.01	.001
		7.1	.01	-3.67	-2.10	.17	.14	4.82	.00	.01		.01	.01	.000
		14.2	.01	8.23	-16.78	.17	.14	4.82	.00	.03		.01	.01	.001
		21.4	.01	20.13	-31.47	.17	.14	4.82	.00	.06		.01	.01	.002
		28.5	.01	32.03	-46.15	.17	.14	4.82	.00	.09		.01	.01	.004

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 4

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
306- 406	DRL- 1	0.0	.02	7.74	8.32	.10	-.12	4.95	.00	.02		.01	.01	.001
		7.1	.02	-2.30	-.10	.10	-.12	4.95	.00	.00		.01	.01	.000
		14.2	.02	-12.34	-8.51	.10	-.12	4.95	.00	.02		.01	.01	.001
		21.4	.02	-22.38	-16.92	.10	-.12	4.95	.00	.04		.01	.01	.002
		28.5	.02	-32.41	-25.34	.10	-.12	4.95	.00	.06		.01	.01	.003
401- 501	JL4- 1	0.0	5.36	18.02	10.24	.88	.61	-22.74	.02	.01		.01	.01	.001
		1.1	5.36	26.35	-1.76	.88	.61	-22.74	.02	.01		.01	.01	.001
		2.3	5.36	34.68	-13.75	.88	.61	-22.74	.02	.01		.01	.01	.002
		3.4	5.36	43.01	-25.75	.88	.61	-22.74	.02	.02		.01	.01	.002
		4.6	5.36	51.34	-37.74	.88	.61	-22.74	.02	.02		.01	.01	.002
401- 510	P1- 1	0.0	-5.25	21.57	-25.76	-.81	-.46	10.68	-.02	-.02		.01	.01	.002
		1.1	-5.25	15.23	-14.66	-.81	-.46	10.68	-.02	-.01		.01	.01	.002
		2.3	-5.25	8.89	-3.56	-.81	-.46	10.68	-.02	-.00		.01	.01	.001
		3.4	-5.25	2.55	7.54	-.81	-.46	10.68	-.02	-.00		.01	.01	.001
		4.6	-5.25	-3.79	18.65	-.81	-.46	10.68	-.02	-.01		.01	.01	.001
403- 503	JL4- 1	0.0	67.94	41.25	11.81	-.59	.22	27.91	.27	.02		.01	.01	.013
		1.1	67.94	44.24	19.91	-.59	.22	27.91	.27	.02		.01	.01	.013
		2.3	67.94	47.22	28.01	-.59	.22	27.91	.27	.02		.01	.01	.013
		3.4	67.94	50.20	36.12	-.59	.22	27.91	.27	.02		.01	.01	.013
		4.6	67.94	53.18	44.22	-.59	.22	27.91	.27	.02		.01	.01	.013
403- 511	P1- 1	0.0	-68.04	-16.42	38.86	.43	-.23	-14.34	-.31	-.02		.01	.01	.015
		1.1	-68.04	-19.60	32.95	.43	-.23	-14.34	-.31	-.02		.01	.01	.015
		2.3	-68.04	-22.78	27.04	.43	-.23	-14.34	-.31	-.02		.01	.01	.015
		3.4	-68.04	-25.97	21.14	.43	-.23	-14.34	-.31	-.02		.01	.01	.015
		4.6	-68.04	-29.15	15.23	.43	-.23	-14.34	-.31	-.02		.01	.01	.015
406- 506	JL4- 1	0.0	-63.55	-28.33	-17.86	-.66	.64	13.28	-.25	-.01		.01	.01	.012
		1.1	-63.55	-19.62	-8.78	-.66	.64	13.28	-.25	-.01		.01	.01	.012
		2.3	-63.55	-10.91	.29	-.66	.64	13.28	-.25	-.00		.01	.01	.012
		3.4	-63.55	-2.21	9.37	-.66	.64	13.28	-.25	-.00		.01	.01	.012
		4.6	-63.55	6.50	18.45	-.66	.64	13.28	-.25	-.01		.01	.01	.012
406- 512	P1- 1	0.0	63.55	-4.08	-7.95	.76	-.73	-12.56	.29	.00		.01	.01	.013
		1.1	63.55	-14.12	-18.40	.76	-.73	-12.56	.29	.01		.01	.01	.014
		2.3	63.55	-24.16	-28.84	.76	-.73	-12.56	.29	.02		.01	.01	.014
		3.4	63.55	-34.20	-39.29	.76	-.73	-12.56	.29	.02		.01	.01	.014
		4.6	63.55	-44.24	-49.73	.76	-.73	-12.56	.29	.03		.01	.01	.015
501- 502	165- 1	0.0	-1.70	1.83	-20.76	-.16	.00	.63	-.06	-.19		.01	.01	.011
		3.8	-1.70	1.88	-13.38	-.16	.00	.63	-.06	-.12		.01	.01	.008
		7.6	-1.70	1.93	-6.01	-.16	.00	.63	-.06	-.06		.01	.01	.005
		11.4	-1.70	1.98	1.37	-.16	.00	.63	-.06	-.02		.01	.01	.004
		15.1	-1.70	2.02	8.75	-.16	.00	.63	-.06	-.08		.01	.01	.007

LOAD CONDITION NO. 4

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
501- 504	165- 1	0.0	2.18	2.08	-21.14	-.17	-.01	-1.27	.07	.19		.02	.02	.011
		3.8	2.18	1.65	-13.39	-.17	-.01	-1.27	.07	.12		.02	.02	.008
		7.6	2.18	1.21	-5.65	-.17	-.01	-1.27	.07	.05		.02	.02	.006
		11.4	2.18	.78	2.10	-.17	-.01	-1.27	.07	.02		.02	.02	.004
		15.1	2.18	.35	9.85	-.17	-.01	-1.27	.07	.09		.02	.02	.007
501- 601	JL5- 1	0.0	6.25	65.65	-25.55	-1.79	-1.04	-47.95	.04	.04		.04	.04	.004
		1.5	6.25	46.61	7.04	-1.79	-1.04	-47.95	.04	.03		.04	.04	.003
		3.0	6.25	27.60	39.64	-1.79	-1.04	-47.95	.04	.03		.04	.04	.003
		4.6	6.25	8.58	72.23	-1.79	-1.04	-47.95	.04	.05		.04	.04	.004
		6.1	6.25	-10.45	104.83	-1.79	-1.04	-47.95	.04	.07		.04	.04	.005
501- 622	200- 1	0.0	-2.39	9.94	21.84	.21	-.02	2.21	-.06	-.13		.02	.02	.004
		5.1	-2.39	8.65	9.25	.21	-.02	2.21	-.06	-.07		.02	.02	.006
		10.2	-2.39	7.31	-3.35	.21	-.02	2.21	-.06	-.05		.02	.02	.005
		15.3	-2.39	6.00	-15.95	.21	-.02	2.21	-.06	-.10		.02	.02	.007
		20.4	-2.39	4.70	-28.52	.20	-.02	2.21	-.06	-.16		.02	.02	.010
502- 503	165- 1	0.0	-1.88	1.67	7.62	.10	.01	.11	-.06	-.07		.01	.01	.006
		3.8	-1.88	2.25	3.01	.10	.01	.11	-.06	-.03		.01	.01	.005
		7.6	-1.88	2.64	-1.60	.10	.01	.11	-.06	-.03		.01	.01	.005
		11.4	-1.88	3.03	-6.21	.10	.01	.11	-.06	-.06		.01	.01	.006
		15.1	-1.88	3.41	-10.82	.10	.01	.11	-.06	-.10		.01	.01	.008
502- 504	105- 1	0.0	-.03	.27	1.08	.01	-.00	.03	-.00	-.04		.00	.00	.002
		3.8	-.03	.09	.57	.01	-.00	.03	-.00	-.02		.00	.00	.001
		7.6	-.03	-.09	.06	.01	-.00	.03	-.00	-.00		.00	.00	.000
		11.4	-.03	-.27	-.44	.01	-.00	.03	-.00	-.02		.00	.00	.001
		15.2	-.03	-.44	-.95	.01	-.00	.03	-.00	-.04		.00	.00	.002
502- 505	105- 1	0.0	.32	.43	.05	-.00	-.00	-.12	.03	.01		.00	.00	.002
		3.8	.32	.26	.26	-.00	-.00	-.12	.03	.01		.00	.00	.002
		7.6	.32	.10	.46	-.00	-.00	-.12	.03	.02		.00	.00	.002
		11.4	.32	-.06	.67	-.00	-.00	-.12	.03	.02		.00	.00	.002
		15.2	.32	-.22	.88	-.00	-.00	-.12	.03	.03		.00	.00	.003
503- 505	165- 1	0.0	-1.42	2.08	8.45	.05	-.01	1.14	-.05	-.08		.01	.01	.006
		3.8	-1.42	1.42	6.31	.05	-.01	1.14	-.05	-.06		.01	.01	.005
		7.6	-1.42	.76	4.18	.05	-.01	1.14	-.05	-.04		.01	.01	.004
		11.4	-1.42	.10	2.04	.05	-.01	1.14	-.05	-.02		.01	.01	.003
		15.1	-1.42	-.56	-.10	.05	-.01	1.14	-.05	-.01		.01	.01	.003
503- 603	JL5- 1	0.0	61.21	16.56	28.86	1.55	.41	55.91	.43	.02		.04	.04	.021
		1.5	61.21	24.05	4.24	1.55	.41	55.91	.43	.02		.04	.04	.020
		3.0	61.21	31.53	-20.39	1.55	.41	55.91	.43	.02		.04	.04	.021
		4.6	61.21	39.01	-45.01	1.55	.41	55.91	.43	.04		.04	.04	.021
		6.1	61.21	46.50	-69.64	1.55	.41	55.91	.43	.05		.04	.04	.022

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 4

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y	Z ---KSI---	Y SHEAR STRESS	Z SHEAR STRESS -------/	COMB. UNITY CHECK
503- 625	200- 1	0.0	5.51	37.75	15.63	.06	-.30	1.93	.14	.23		.02	.02	.016
		5.1	5.51	19.39	11.70	.06	-.30	1.93	.14	.13		.02	.02	.012
		10.1	5.51	1.03	7.78	.06	-.30	1.93	.14	.04		.02	.02	.009
		15.2	5.51	-17.33	3.86	.06	-.30	1.93	.14	.10		.02	.02	.011
		20.3	5.51	-34.59	-.07	.06	-.22	1.93	.14	.19		.02	.02	.015
504- 505	105- 1	0.0	-.30	.13	-.23	-.01	.00	.09	-.03	-.01		.00	.00	.002
		3.8	-.30	.15	.08	-.01	.00	.09	-.03	-.01		.00	.00	.002
		7.6	-.30	.17	.40	-.01	.00	.09	-.03	-.01		.00	.00	.002
		11.4	-.30	.19	.71	-.01	.00	.09	-.03	-.02		.00	.00	.002
		15.2	-.30	.22	1.03	-.01	.00	.09	-.03	-.04		.00	.00	.003
504- 506	165- 1	0.0	2.32	-.04	9.15	.12	-.01	-1.57	.08	.08		.02	.02	.007
		3.8	2.32	-.68	3.60	.12	-.01	-1.57	.08	.03		.02	.02	.005
		7.6	2.32	-1.31	-1.92	.12	-.01	-1.57	.08	.02		.02	.02	.004
		11.4	2.32	-1.94	-7.45	.12	-.01	-1.57	.08	.07		.02	.02	.006
		15.2	2.32	-2.57	-12.98	.12	-.01	-1.57	.08	.12		.02	.02	.009
505- 506	165- 1	0.0	-1.10	-.80	1.81	.07	-.02	1.04	-.04	-.02		.01	.01	.003
		3.8	-1.10	-1.60	-1.17	.07	-.02	1.04	-.04	-.02		.01	.01	.003
		7.6	-1.10	-2.40	-4.14	.07	-.02	1.04	-.04	-.04		.01	.01	.004
		11.4	-1.10	-3.20	-7.12	.07	-.02	1.04	-.04	-.07		.01	.01	.005
		15.2	-1.10	-4.00	-10.09	.07	-.02	1.04	-.04	-.10		.01	.01	.006
506- 606	JL5- 1	0.0	-61.78	7.35	-14.50	.29	-1.08	4.79	-.43	-.01		.02	.02	.021
		1.5	-61.78	-12.45	-19.72	.29	-1.08	4.79	-.43	-.01		.02	.02	.021
		3.0	-61.78	-32.25	-24.93	.29	-1.08	4.79	-.43	-.03		.02	.02	.021
		4.6	-61.78	-52.06	-30.15	.29	-1.08	4.79	-.43	-.04		.02	.02	.022
		6.1	-61.78	-71.86	-35.37	.29	-1.08	4.79	-.43	-.05		.02	.02	.022
506- 624	200- 1	0.0	-3.63	24.65	-34.60	-.26	-.19	-3.14	-.10	-.24		.03	.03	.015
		5.1	-3.63	12.99	-18.83	-.26	-.19	-3.14	-.10	-.13		.03	.03	.010
		10.1	-3.63	1.33	-3.07	-.26	-.19	-3.14	-.10	-.02		.03	.03	.006
		15.2	-3.63	-10.34	12.70	-.26	-.19	-3.14	-.10	-.09		.03	.03	.009
		20.2	-3.63	-18.87	26.90	-.20	-.08	-3.14	-.10	-.18		.02	.02	.012
510- 710	P1- 1	0.0	-5.25	-3.92	18.62	-1.18	-.30	10.67	-.02	-.01		.01	.01	.002
		6.3	-5.25	-26.76	108.26	-1.18	-.30	10.67	-.02	-.05		.01	.01	.003
		12.7	-5.25	-49.61	197.89	-1.18	-.30	10.67	-.02	-.10		.01	.01	.005
		19.0	-5.25	-72.46	287.52	-1.18	-.30	10.67	-.02	-.14		.01	.01	.007
		25.3	-5.25	-95.31	377.15	-1.18	-.30	10.67	-.02	-.18		.01	.01	.009
511- 711	P1- 1	0.0	-68.04	-29.07	15.41	1.18	1.15	-14.32	-.31	-.02		.02	.02	.016
		6.3	-68.04	58.20	-74.15	1.18	1.15	-14.32	-.31	-.04		.02	.02	.017
		12.7	-68.04	145.47	-163.71	1.18	1.15	-14.32	-.31	-.10		.02	.02	.019
		19.0	-68.04	232.74	-253.27	1.18	1.15	-14.32	-.31	-.16		.02	.02	.022
		25.3	-68.04	320.01	-342.83	1.18	1.15	-14.32	-.31	-.22		.02	.02	.024

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 4

PAGE 59
DATE 10/05/76

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE FY KIPS	----/ FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /----	BENDING STRESS Y	BENDING STRESS Z ----KSI----	Y SHEAR STRESS	Z SHEAR STRESS ----/	COMB. UNITY CHECK
512- 712	P1- 1	0.0	63.55	-44.24	-49.73	-.21	-.62	-12.58	.29	.03		.01	.01	.015
		6.3	63.55	-91.46	-33.65	-.21	-.62	-12.58	.29	.05		.01	.01	.015
		12.7	63.55	-138.68	-17.98	-.21	-.62	-12.58	.29	.07		.01	.01	.016
		19.0	63.55	-185.90	-2.11	-.21	-.62	-12.58	.29	.09		.01	.01	.017
		25.3	63.55	-233.12	13.77	-.21	-.62	-12.58	.29	.11		.01	.01	.018
601- 621	JL6- 1	0.0	5.93	-15.83	93.26	-1.45	-.82	-63.47	.04	.06		.04	.04	.004
		1.5	5.93	-30.83	119.70	-1.45	-.82	-63.47	.04	.08		.04	.04	.005
		3.0	5.93	-45.83	146.15	-1.45	-.82	-63.47	.04	.10		.04	.04	.006
		4.6	5.93	-60.83	172.59	-1.45	-.82	-63.47	.04	.11		.04	.04	.007
		6.1	5.92	-75.76	198.35	-1.33	-.81	-63.47	.04	.13		.04	.04	.008
603- 623	JL6- 1	0.0	60.77	39.25	-51.47	1.15	.50	64.48	.43	.04		.04	.04	.021
		1.5	60.77	48.44	-72.53	1.15	.50	64.48	.43	.05		.04	.04	.022
		3.0	60.77	57.62	-93.58	1.15	.50	64.48	.43	.07		.04	.04	.023
		4.6	60.77	66.80	-114.63	1.15	.50	64.48	.43	.08		.04	.04	.023
		6.1	60.77	75.99	-135.69	1.15	.50	64.48	.43	.10		.04	.04	.024
606- 626	JL6- 1	0.0	-61.77	-71.86	-35.35	.29	-1.29	4.90	-.43	-.05		.02	.02	.022
		1.5	-61.77	-95.30	-40.57	.29	-1.29	4.90	-.43	-.07		.02	.02	.023
		3.0	-61.79	-118.59	-45.69	.25	-1.23	4.90	-.43	-.08		.02	.02	.024
		4.6	-61.85	-139.39	-49.37	.15	-1.05	4.90	-.43	-.09		.02	.02	.024
		6.1	-61.92	-157.21	-51.39	.02	-.80	4.90	-.43	-.10		.01	.01	.025
621- 651	JL6- 1	0.0	5.93	-74.84	198.64	-1.33	-.80	-63.69	.04	.13		.04	.04	.008
		1.5	5.93	-89.37	219.00	-.91	-.80	-63.69	.04	.15		.04	.04	.008
		3.0	5.93	-103.88	251.80	-.50	-.79	-63.69	.04	.16		.03	.03	.009
		4.6	5.93	-118.37	237.21	-.10	-.79	-63.69	.04	.17		.03	.03	.009
		6.1	5.93	-132.81	235.37	.30	-.79	-63.69	.04	.17		.03	.03	.009
622- 703	200- 1	0.0	-2.39	4.72	-28.49	.20	-.04	2.54	-.06	-.16		.02	.02	.010
		5.4	-2.38	2.42	-32.98	-.05	-.03	2.54	-.06	-.19		.01	.01	.011
		10.9	-2.38	.16	-22.19	-.27	-.04	2.54	-.06	-.12		.02	.02	.008
		16.3	-2.39	-2.62	2.82	-.49	-.05	2.54	-.06	-.02		.03	.03	.004
		21.8	-2.38	-6.75	42.04	-.71	-.08	2.54	-.06	-.24		.04	.04	.013
623- 653	JL6- 1	0.0	60.77	76.60	-135.22	1.10	.59	64.73	.43	.10		.04	.04	.024
		1.5	60.73	66.94	-154.98	1.02	.47	64.73	.42	.11		.04	.04	.024
		3.0	60.64	92.83	-171.81	.83	.18	64.73	.42	.12		.03	.03	.025
		4.6	60.54	93.52	-185.17	.64	-.10	64.73	.42	.13		.03	.03	.025
		6.1	60.45	89.12	-195.11	.45	-.38	64.73	.42	.13		.03	.03	.025
624- 701	200- 1	0.0	-3.63	-18.88	26.90	-.20	-.08	-3.14	-.10	-.18		.02	.02	.013
		5.5	-3.63	-17.90	33.58	-.00	.10	-3.14	-.10	-.21		.01	.01	.014
		11.0	-3.63	-6.92	26.79	.21	.23	-3.14	-.10	-.15		.03	.03	.011
		16.5	-3.61	11.37	6.00	.42	.32	-3.14	-.09	-.07		.04	.04	.008
		21.9	-3.59	35.28	-27.95	.61	.40	-3.14	-.09	-.25		.05	.05	.015

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 4

PAGE 60
DATE 10/05/76

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
625- 706	200- 1	0.0	5.51	-34.59	-.08	.06	-.22	1.91	.14	.19		.02	.02	.015
		5.5	5.52	-38.16	-3.31	.04	.10	1.91	.15	.21		.01	.01	.016
		11.0	5.54	-21.75	-4.97	.02	.39	1.91	.15	.12		.03	.03	.012
		16.4	5.52	12.50	-5.81	.01	.65	1.91	.15	.08		.04	.04	.010
		21.9	5.51	62.43	-6.57	.01	.87	1.91	.14	.35		.05	.05	.021
626- 656	JL6- 1	0.0	-61.90	-156.94	-51.29	.06	-.77	4.82	-.43	-.10		.01	.01	.025
		1.5	-61.81	-168.52	-50.67	-.12	-.50	4.82	-.43	-.11		.01	.01	.025
		3.0	-61.72	-175.18	-46.73	-.31	-.23	4.82	-.43	-.11		.01	.01	.025
		4.6	-61.63	-177.04	-39.48	-.49	.05	4.82	-.43	-.11		.01	.01	.025
		6.1	-61.54	-174.26	-29.04	-.66	.28	4.82	-.43	-.11		.01	.01	.025
651- 701	JL6- 1	0.0	6.08	-133.53	219.54	1.96	-.38	-89.38	.04	.16		.06	.06	.009
		1.8	6.08	-141.65	172.84	2.41	-.38	-89.38	.04	.14		.06	.06	.008
		3.5	6.08	-149.67	116.95	2.84	-.38	-89.38	.04	.12		.07	.07	.007
		5.3	6.08	-157.68	51.91	3.26	-.38	-89.38	.04	.10		.07	.07	.006
		7.1	6.08	-165.74	-22.00	3.68	-.38	-89.38	.04	.11		.08	.08	.006
653- 703	JL6- 1	0.0	63.82	110.71	-199.79	-.56	-.93	70.64	.45	.14		.04	.04	.027
		1.8	63.82	86.70	-185.57	-.77	-1.32	70.64	.45	.13		.04	.04	.026
		3.5	63.82	54.64	-166.95	-.98	-1.69	70.64	.45	.11		.05	.05	.025
		5.3	63.81	14.82	-144.01	-1.18	-2.05	70.64	.45	.09		.06	.06	.024
		7.1	63.81	-32.50	-116.80	-1.38	-2.40	70.64	.45	.08		.06	.06	.024
656- 706	JL6- 1	0.0	-61.54	-174.26	-29.04	-.66	.31	4.81	-.43	-.11		.01	.01	.025
		1.8	-61.54	-163.58	-12.80	-.87	.70	4.81	-.43	-.10		.02	.02	.024
		3.5	-61.55	-144.74	7.47	-1.07	1.07	4.81	-.43	-.09		.02	.02	.024
		5.3	-61.55	-118.05	32.89	-1.28	1.43	4.81	-.43	-.08		.03	.03	.023
		7.1	-61.55	-83.80	62.16	-1.47	1.78	4.81	-.43	-.07		.03	.03	.023
701- 702	137- 1	0.0	-5.94	50.50	-9.77	.01	-.58	4.49	-.31	-.91		.10	.10	.059
		4.7	-5.94	20.31	-9.06	-.04	-.49	4.49	-.31	-.39		.09	.09	.037
		9.4	-5.94	-4.60	-5.05	-.10	-.40	4.49	-.31	-.12		.08	.08	.026
		14.1	-5.94	-24.23	2.93	-.18	-.30	4.49	-.31	-.43		.08	.08	.039
		18.8	-5.94	-38.58	15.52	-.27	-.21	4.49	-.31	-.73		.07	.07	.051
701- 704	137- 1	0.0	.56	63.61	-9.61	.03	-.71	-2.63	.03	1.14		.10	.10	.049
		4.7	.57	20.64	-9.32	-.04	-.61	-2.63	.03	.50		.09	.09	.022
		9.4	.57	-4.59	-5.75	-.09	-.50	-2.63	.03	.13		.08	.08	.007
		14.1	.56	-29.23	.77	-.14	-.38	-2.63	.03	.52		.06	.06	.023
		18.8	.54	-46.62	9.89	-.18	-.24	-2.63	.03	.84		.05	.05	.037
701- 801	JL7- 1	0.0	-3.28	13.61	36.93	-2.49	-.02	-36.96	-.05	-.05		.09	.09	.004
		7.1	-3.28	11.34	184.76	-1.01	-.04	-36.96	-.05	-.24		.05	.05	.012
		14.2	-3.29	6.07	212.19	.34	-.09	-36.96	-.05	-.27		.03	.03	.014
		21.3	-3.29	-3.05	130.20	1.57	-.13	-36.96	-.05	-.17		.07	.07	.009
		28.4	-3.30	-15.44	-51.07	2.67	-.16	-36.96	-.05	-.07		.10	.10	.005

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 4

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS	BENDING STRESS Y	BENDING STRESS Z	Y SHEAR STRESS	Z SHEAR STRESS	COMB. UNITY CHECK
									KSI	KSI	KSI	KSI	KSI	
701- 806	200- 1	0.0	9.07	63.15	50.11	.70	-.73	1.52	.24	.45		.06	.06	.030
		12.5	9.07	-15.44	-25.01	.30	-.33	1.52	.24	.16		.03	.03	.018
		25.1	9.11	-39.69	-41.86	-.06	.00	1.52	.24	.32		.01	.01	.025
		37.6	9.11	-16.16	-12.18	-.32	.31	1.52	.24	.11		.03	.03	.016
		50.2	9.11	52.91	52.29	-.54	.61	1.52	.24	.42		.05	.05	.029
702- 703	157- 1	0.0	-6.16	-56.31	12.25	.26	.22	-4.78	-.32	-.68		.08	.06	.050
		4.7	-6.16	-21.29	.36	.16	.31	-4.78	-.32	-.38		.08	.08	.037
		9.4	-6.16	-1.64	-6.26	.07	.39	-4.78	-.32	-.11		.08	.08	.026
		14.1	-6.16	21.97	-7.60	-.02	.45	-4.78	-.32	-.41		.09	.09	.039
		18.8	-6.16	48.87	-3.66	-.12	.50	-4.78	-.32	-.86		.10	.10	.056
702- 704	107- 1	0.0	.22	7.53	-.17	.00	-.24	.14	.02	.25		.04	.04	.011
		4.7	.22	-3.26	-.39	.00	-.14	.14	.02	.11		.03	.03	.005
		9.4	.22	-8.11	-.61	.00	-.03	.14	.02	.27		.01	.01	.012
		14.1	.22	-6.36	-.83	.00	.09	.14	.02	.21		.02	.02	.010
		18.8	.22	2.64	-1.06	.00	.23	.14	.02	.09		.04	.04	.005
702- 705	107- 1	0.0	.45	3.25	3.43	.12	-.19	.01	.04	.16		.04	.04	.006
		4.7	.47	-4.78	-1.39	.05	-.10	.01	.04	.17		.02	.02	.009
		9.4	.49	-7.54	-2.60	-.01	-.00	.01	.04	.27		.00	.00	.013
		14.1	.50	-5.02	-.22	-.07	.09	.01	.04	.17		.02	.02	.009
		18.8	.52	2.78	5.78	-.14	.19	.01	.04	.21		.04	.04	.011
703- 705	157- 1	0.0	3.76	50.00	12.76	.09	-.51	4.58	.20	.91		.09	.09	.047
		4.7	3.76	22.62	7.53	.09	-.46	4.58	.20	.42		.09	.09	.027
		9.4	3.76	-1.46	2.29	.09	-.39	4.58	.20	.05		.08	.08	.011
		14.1	3.76	-21.59	-2.95	.09	-.32	4.58	.20	.38		.07	.07	.025
		18.8	3.76	-37.09	-8.18	.09	-.23	4.58	.20	.67		.07	.07	.037
705- 801	200- 1	0.0	9.35	42.12	-73.77	-.87	-.42	-2.02	.25	.48		.06	.06	.031
		12.5	9.32	-3.29	21.02	-.41	-.20	-2.02	.25	.12		.03	.03	.016
		25.1	9.33	-19.97	52.82	-.02	-.03	-2.02	.25	.32		.01	.01	.025
		37.6	9.35	-12.18	27.05	.36	.13	-2.02	.25	.17		.03	.03	.018
		50.2	9.37	20.19	-50.86	.66	.30	-2.02	.25	.31		.04	.04	.024
705- 803	JL7- 1	0.0	56.23	98.97	-96.53	.80	1.74	-2.75	.80	.18		.06	.06	.044
		7.1	56.24	192.34	-134.91	.11	.48	-2.75	.80	.30		.02	.02	.049
		14.2	56.25	184.33	-115.82	-.54	-.65	-2.75	.80	.28		.03	.03	.048
		21.3	56.24	85.21	-43.98	-1.13	-1.66	-2.75	.80	.12		.06	.06	.042
		28.4	56.23	-96.19	75.03	-1.65	-2.58	-2.75	.80	.16		.09	.09	.043
704- 705	107- 1	0.0	-.58	2.88	4.70	.10	-.23	-.14	-.05	-.18		.04	.04	.011
		4.7	-.58	-6.25	.36	.05	-.10	-.14	-.05	-.21		.02	.02	.012
		9.4	-.58	-8.12	-1.35	.01	.03	-.14	-.05	-.28		.01	.01	.014
		14.1	-.58	-3.39	-.42	-.04	.14	-.14	-.05	-.11		.03	.03	.008
		18.8	-.58	7.27	3.16	-.09	.24	-.14	-.05	-.27		.04	.04	.014

S I R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 4

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
704- 706	157- 1	0.0	1.04	-46.74	4.13	.08	.22	2.30	.05	.83		.04	.04	.037
		4.7	1.01	-30.50	.73	.04	.36	2.30	.05	.54		.06	.06	.025
		9.4	1.00	-6.35	-.96	.02	.50	2.30	.05	.11		.07	.07	.007
		14.1	.99	25.73	-1.50	.00	.64	2.30	.05	.45		.09	.09	.022
		18.8	.99	65.73	-1.48	-.00	.78	2.30	.05	1.16		.10	.10	.051
705- 706	157- 1	0.0	4.51	-39.45	.75	.02	.19	-4.07	.23	.70		.06	.06	.040
		4.7	4.51	-25.84	-.18	.02	.29	-4.07	.23	.46		.07	.07	.030
		9.4	4.51	-6.29	-1.12	.02	.40	-4.07	.23	.11		.08	.08	.016
		14.1	4.51	19.87	-2.05	.02	.53	-4.07	.23	.35		.09	.09	.026
		18.8	4.51	53.29	-2.99	.02	.66	-4.07	.23	.94		.10	.10	.050
705- 803	200- 1	0.0	-16.80	-6.10	19.97	.10	-.09	1.44	-.44	-.12		.01	.01	.032
		12.5	-16.79	-2.08	6.44	.08	.10	1.44	-.44	-.04		.01	.01	.029
		25.1	-16.80	13.25	-5.33	.07	.10	1.44	-.44	-.08		.01	.01	.030
		37.6	-16.81	19.57	-12.52	.02	-.04	1.44	-.44	-.13		.01	.01	.032
		50.2	-16.78	-1.94	-9.82	-.05	-.26	1.44	-.44	-.06		.02	.02	.029
706- 806	JL7- 1	0.0	-51.67	67.57	82.29	1.52	-2.67	35.12	-.73	-.14		.11	.11	.041
		7.1	-51.67	-104.28	-17.66	.84	-1.59	35.12	-.73	-.13		.07	.07	.041
		14.2	-51.68	-173.13	-61.72	.21	-.25	35.12	-.73	-.23		.03	.03	.045
		21.3	-51.67	-150.06	-54.41	-.37	.77	35.12	-.73	-.20		.05	.05	.044
		28.4	-51.66	-44.50	-.27	-.89	1.69	35.12	-.73	-.06		.08	.08	.038
710- 810	P2- 1	0.0	-5.26	-94.75	377.29	.18	.45	10.55	-.02	-.16		.01	.01	.008
		7.1	-5.26	-56.66	361.64	.18	.45	10.55	-.02	-.15		.01	.01	.007
		14.2	-5.26	-18.57	345.98	.18	.45	10.55	-.02	-.14		.01	.01	.007
		21.3	-5.26	19.51	330.33	.18	.45	10.55	-.02	-.14		.01	.01	.007
		28.4	-5.26	57.60	314.67	.18	.45	10.55	-.02	-.13		.01	.01	.007
711- 811	P2- 1	0.0	-68.04	320.52	-342.37	-.71	-.09	-14.11	-.27	-.20		.01	.01	.022
		7.1	-68.04	313.10	-281.84	-.71	-.09	-14.11	-.27	-.18		.01	.01	.021
		14.2	-68.04	305.69	-221.31	-.71	-.09	-14.11	-.27	-.16		.01	.01	.020
		21.3	-68.04	298.27	-160.78	-.71	-.09	-14.11	-.27	-.14		.01	.01	.019
		28.4	-68.04	290.85	-100.25	-.71	-.09	-14.11	-.27	-.13		.01	.01	.019
712- 812	P2- 1	0.0	63.55	-233.12	13.76	.60	-.30	-12.59	.25	.10		.01	.01	.016
		7.1	63.55	-258.91	-37.49	.60	-.30	-12.59	.25	.11		.01	.01	.016
		14.2	63.55	-284.71	-88.74	.60	-.30	-12.59	.25	.12		.01	.01	.017
		21.3	63.55	-310.50	-139.99	.60	-.30	-12.59	.25	.14		.01	.01	.018
		28.4	63.55	-336.30	-191.24	.60	-.30	-12.59	.25	.16		.01	.01	.018
801- 802	148- 1	0.0	-.83	12.50	-18.52	-.02	-.17	4.09	-.04	-.32		.05	.05	.016
		5.7	-.83	2.98	-15.47	-.07	-.12	4.09	-.04	-.23		.04	.04	.012
		11.4	-.83	-3.62	-8.52	-.13	-.08	4.09	-.04	-.13		.04	.04	.008
		17.1	-.83	-6.27	2.32	-.19	-.06	4.09	-.04	-.12		.05	.05	.008
		22.8	-.83	-11.94	17.06	-.24	-.05	4.09	-.04	-.30		.05	.05	.015

LOAD CONDITION NO. 4

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
801- 804	148- 1	0.0	5.26	57.46	-17.35	.01	-.34	-.15	.25	.60		.03	.03	.037
		5.7	5.28	10.42	-15.25	-.07	-.28	-.15	.25	.32		.03	.03	.025
		11.4	5.26	-.73	-8.31	-.13	-.22	-.15	.25	.12		.03	.03	.017
		17.1	5.27	-13.98	2.97	-.19	-.17	-.15	.25	.21		.03	.03	.020
		22.8	5.25	-25.54	18.12	-.25	-.11	-.15	.25	.43		.03	.03	.029
801- 901	JL8- 1	0.0	8.09	35.20	-46.91	-2.04	-.07	4.53	.11	.07		.06	.06	.008
		8.1	8.08	27.22	95.47	-.91	-.10	4.53	.11	.13		.03	.03	.011
		16.2	8.08	16.78	134.17	.10	-.11	4.53	.11	.17		.01	.01	.013
		24.3	8.08	5.94	77.41	1.05	-.11	4.53	.11	.10		.03	.03	.009
		32.4	8.08	-4.29	-68.49	1.93	-.11	4.53	.11	.09		.06	.06	.009
801- 903	200- 1	0.0	-12.55	-16.25	43.77	.55	.09	3.47	-.33	-.26		.04	.04	.033
		14.9	-12.56	-1.71	-28.81	.26	.08	3.47	-.33	-.16		.02	.02	.029
		29.8	-12.56	10.47	-48.17	-.04	.05	3.47	-.33	-.28		.01	.01	.034
		44.7	-12.51	9.91	-14.32	-.34	.07	3.47	-.33	-.10		.03	.03	.026
		59.6	-12.44	-13.83	72.76	-.64	-.20	3.47	-.33	-.41		.04	.04	.039
802- 803	148- 1	0.0	-1.26	-11.05	10.00	.17	.10	-4.87	-.06	-.22		.05	.05	.013
		5.7	-1.26	-4.55	.56	.11	.10	-4.87	-.06	-.06		.05	.05	.007
		11.4	-1.26	2.39	-4.98	.05	.10	-4.87	-.06	-.08		.05	.05	.008
		17.1	-1.26	9.11	-6.63	-.00	.10	-4.87	-.06	-.16		.04	.04	.011
		22.8	-1.26	15.83	-4.38	-.06	.10	-4.87	-.06	-.24		.05	.05	.014
802- 804	108- 1	0.0	-.03	6.14	.75	.00	-.09	-.31	-.00	-.21		.02	.02	.009
		5.7	-.03	.16	.46	.00	-.08	-.31	-.00	-.02		.02	.02	.001
		11.4	-.03	-3.07	.17	.00	-.04	-.31	-.00	-.13		.01	.01	.006
		17.1	-.03	-4.33	-.12	.00	.02	-.31	-.00	-.14		.01	.01	.006
		22.8	-.03	-.90	-.41	.00	.08	-.31	-.00	-.03		.02	.02	.002
802- 805	108- 1	0.0	.58	3.98	6.30	.14	-.06	.09	.05	.25		.03	.03	.013
		5.7	.60	.21	-.57	.06	-.05	.09	.05	.02		.02	.02	.003
		11.4	.60	-2.58	-2.61	-.00	-.03	.09	.05	.12		.01	.01	.007
		17.1	.59	-3.42	-.30	-.06	.01	.09	.05	.11		.01	.01	.007
		22.8	.57	-1.34	5.87	-.12	.06	.09	.05	.20		.02	.02	.011
803- 835	148- 1	0.0	-4.28	35.13	10.06	.05	-.23	2.03	-.20	-.53		.04	.04	.037
		5.7	-4.28	19.26	6.65	.05	-.23	2.03	-.20	-.29		.04	.04	.027
		11.4	-4.28	3.55	3.24	.05	-.22	2.03	-.20	-.07		.04	.04	.017
		17.1	-4.28	-10.22	-.17	.05	-.17	2.03	-.20	-.15		.03	.03	.021
		22.8	-4.28	-20.24	-3.57	.05	-.12	2.03	-.20	-.30		.03	.03	.027
803- 903	JL8- 1	0.0	33.87	1.17	23.47	.87	1.40	17.05	.48	.03		.06	.06	.023
		8.1	33.88	90.97	-35.47	.35	.46	17.05	.48	.12		.03	.03	.027
		16.2	33.89	95.06	-46.99	-.11	-.36	17.05	.48	.13		.02	.02	.028
		24.3	33.86	23.17	-15.25	-.54	-1.10	17.05	.48	.04		.05	.05	.024
		32.4	33.83	-118.04	56.43	-.92	-1.80	17.05	.48	.17		.07	.07	.029

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
803- 906	200- 1	0.0	23.60	62.62	4.87	-.08	-.45	-.86	.62	.35		.03	.03	.044
		14.9	23.64	.57	13.49	-.01	-.25	-.86	.62	.06		.02	.02	.032
		29.8	23.67	-26.25	10.04	.05	-.05	-.86	.62	.16		.01	.01	.035
		44.7	23.70	-17.84	-5.49	.12	.15	-.86	.62	.10		.01	.01	.033
		59.6	23.73	25.79	-35.10	.19	.34	-.86	.62	.23		.02	.02	.039
804- 805	108- 1	0.0	-.53	2.24	4.74	.11	-.11	.11	-.04	-.18		.03	.03	.010
		5.7	-.53	-3.06	-.82	.05	-.05	.11	-.04	-.11		.01	.01	.007
		11.4	-.53	-4.47	-2.48	-.00	.01	.11	-.04	-.17		.00	.00	.010
		17.1	-.53	-1.98	-.25	-.06	.06	.11	-.04	-.07		.02	.02	.006
		22.8	-.53	4.41	5.89	-.12	.12	.11	-.04	-.25		.03	.03	.013
804- 806	148- 1	0.0	5.60	-24.74	12.96	.18	.08	.80	.26	.40		.02	.02	.029
		5.7	5.57	-17.56	2.23	.13	.13	.80	.26	.26		.02	.02	.023
		11.4	5.54	-6.49	-5.13	.08	.19	.80	.26	.12		.03	.03	.017
		17.1	5.51	8.48	-9.11	.03	.25	.80	.26	.18		.03	.03	.020
		22.8	5.48	27.34	-9.72	-.02	.30	.80	.26	.42		.03	.03	.030
805- 806	148- 1	0.0	-3.53	-22.94	8.18	.08	.06	-.64	-.17	-.35		.01	.01	.027
		5.7	-3.53	-16.85	2.47	.08	.12	-.64	-.17	-.25		.02	.02	.022
		11.4	-3.53	-6.67	-3.23	.08	.17	-.64	-.17	-.11		.02	.02	.016
		17.1	-3.53	7.01	-8.94	.08	.23	-.64	-.17	-.16		.03	.03	.019
		22.8	-3.53	24.78	-14.64	.08	.29	-.64	-.17	-.42		.03	.03	.029
808- 901	200- 1	0.0	-13.10	-6.39	-66.73	-.62	-.11	-2.48	-.34	-.38		.04	.04	.039
		14.9	-13.06	-11.67	19.58	-.34	.03	-2.48	-.34	-.13		.02	.02	.028
		29.8	-13.02	-3.45	50.86	-.01	.06	-2.48	-.34	-.29		.01	.01	.035
		44.7	-13.00	8.50	23.11	.32	.08	-2.48	-.34	-.14		.02	.02	.029
		59.6	-13.01	21.83	-57.42	.57	.07	-2.48	-.34	-.34		.04	.04	.037
808- 906	JL8- 1	0.0	-40.87	30.46	-13.92	.91	-1.55	-41.30	-.58	-.05		.08	.08	.031
		8.1	-40.88	-67.94	-75.86	.37	-.62	-41.30	-.58	-.13		.05	.05	.034
		16.2	-40.89	-87.76	-68.48	-.10	.20	-41.30	-.58	-.16		.03	.03	.035
		24.3	-40.86	-31.65	-57.66	-.52	.94	-41.30	-.58	-.08		.06	.06	.032
		32.4	-40.85	93.87	12.89	-.93	1.63	-41.30	-.58	-.12		.08	.08	.034
810- 910	P2- 1	0.0	-5.25	57.25	314.73	.73	-.01	10.80	-.02	-.13		.01	.01	.007
		8.1	-5.25	55.89	243.78	.73	-.01	10.80	-.02	-.10		.01	.01	.005
		16.2	-5.25	54.54	172.85	.73	-.01	10.80	-.02	-.08		.01	.01	.004
		24.3	-5.25	53.18	101.88	.73	-.01	10.80	-.02	-.05		.01	.01	.003
		32.4	-5.25	51.82	30.93	.73	-.01	10.80	-.02	-.03		.01	.01	.002
811- 911	P2- 1	0.0	-68.03	290.74	-100.56	-.49	-1.18	-14.23	-.27	-.13		.01	.01	.019
		8.1	-68.03	175.71	-52.67	-.49	-1.18	-14.23	-.27	-.08		.01	.01	.017
		16.2	-68.03	60.69	-4.79	-.49	-1.18	-14.23	-.27	-.03		.01	.01	.015
		24.3	-68.03	-54.35	43.10	-.49	-1.18	-14.23	-.27	-.03		.01	.01	.015
		32.4	-68.03	-169.35	90.99	-.49	-1.18	-14.23	-.27	-.08		.01	.01	.017

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
812- 912	P2- 1	0.0	63.54	-336.30	-191.23	-.14	1.19	-12.67	.25	.16		.01	.01	.018
		8.1	63.54	-220.90	-177.73	-.14	1.19	-12.67	.25	.12		.01	.01	.017
		16.2	63.54	-105.51	-164.23	-.14	1.19	-12.67	.25	.08		.01	.01	.015
		24.3	63.54	9.88	-150.72	-.14	1.19	-12.67	.25	.06		.01	.01	.014
		32.4	63.54	125.28	-137.22	-.14	1.19	-12.67	.25	.08		.01	.01	.015
901- 902	16Y- 1	0.0	1.35	-4.99	-22.02	.00	.01	1.38	.06	.25		.01	.01	.013
		6.9	1.35	-3.83	-19.52	-.06	.01	1.38	.06	.22		.01	.01	.012
		13.7	1.35	-2.67	-11.39	-.13	.01	1.38	.06	.13		.02	.02	.008
		20.6	1.35	-1.51	2.58	-.20	.01	1.38	.06	.03		.02	.02	.004
		27.4	1.35	-.35	21.80	-.27	.01	1.38	.06	.24		.03	.03	.013
901- 904	16Y- 1	0.0	6.98	5.29	-18.24	.06	-.01	1.14	.29	.21		.01	.01	.022
		6.9	7.01	4.13	-18.91	-.04	-.01	1.14	.29	.21		.01	.01	.022
		13.7	7.04	2.96	-11.88	-.13	-.01	1.14	.29	.13		.02	.02	.019
		20.6	7.06	1.80	2.84	-.23	-.01	1.14	.29	.04		.02	.02	.015
		27.4	7.09	.64	25.27	-.32	-.01	1.14	.29	.28		.03	.03	.025
901-1001	JL9- 1	0.0	-.07	28.54	-66.35	-1.71	-.10	20.19	-.00	-.09		.06	.06	.004
		8.1	-.07	16.43	59.92	-.69	-.10	20.19	-.00	-.08		.04	.04	.003
		16.2	-.06	8.90	106.34	-.11	-.09	20.19	-.00	-.14		.02	.02	.006
		24.3	-.06	1.60	81.78	.66	-.06	20.19	-.00	-.10		.03	.03	.004
		32.4	-.05	-3.17	-19.21	1.42	-.04	20.19	-.00	-.02		.05	.05	.001
901-1002	16D- 1	0.0	-11.06	-2.18	5.37	.18	.01	2.32	-.40	-.03		.02	.02	.025
		10.6	-11.06	-1.13	-12.51	.07	.00	2.32	-.40	-.11		.02	.02	.028
		21.1	-11.07	-1.05	-15.07	-.03	-.00	2.32	-.40	-.13		.01	.01	.029
		31.7	-11.08	-1.96	-4.32	-.14	-.01	2.32	-.40	-.04		.02	.02	.026
		42.2	-11.08	-3.88	19.74	-.24	-.02	2.32	-.40	-.17		.03	.03	.031
901-1004	16D- 1	0.0	12.27	4.99	13.54	.27	-.07	1.39	.45	.12		.03	.03	.026
		10.6	12.30	-.98	-11.69	.13	-.03	1.39	.45	.10		.02	.02	.025
		21.1	12.33	-1.92	-19.22	-.01	.01	1.39	.45	.17		.01	.01	.028
		31.7	12.37	2.17	-9.04	-.15	.05	1.39	.45	.08		.02	.02	.024
		42.2	12.40	11.30	18.85	-.29	.09	1.39	.45	.19		.03	.03	.029
902- 903	16Y- 1	0.0	.83	-.73	14.16	.20	.02	-1.02	.03	.16		.02	.02	.008
		6.9	.83	1.27	.25	.13	.02	-1.02	.03	.01		.02	.02	.002
		13.7	.83	3.26	-8.03	.07	.02	-1.02	.03	.09		.01	.01	.006
		20.6	.83	5.26	-10.67	-.00	.02	-1.02	.03	.13		.01	.01	.007
		27.4	.83	7.25	-7.67	-.07	.02	-1.02	.03	.12		.01	.01	.006
902- 904	10Y- 1	0.0	-.11	1.05	.73	.00	-.01	-.58	-.01	-.04		.01	.01	.002
		6.9	-.11	.52	.46	.00	-.01	-.58	-.01	-.02		.01	.01	.002
		13.7	-.11	-.02	.19	.00	-.01	-.58	-.01	-.01		.01	.01	.001
		20.6	-.11	-.56	-.07	.00	-.01	-.58	-.01	-.02		.01	.01	.001
		27.4	-.11	-1.10	-.34	.00	-.01	-.58	-.01	-.04		.01	.01	.002

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 4

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
902- 905	109- 1	0.0	.73	1.25	6.90	.12	-.00	.25	.06	.23		.02	.02	.013
		6.9	.69	.93	-.50	.06	-.00	.25	.06	.04		.01	.01	.004
		13.7	.66	.64	-3.02	.00	-.00	.25	.06	.10		.00	.00	.007
		20.6	.62	.34	-.66	-.06	-.00	.25	.05	.02		.01	.01	.003
		27.4	.59	.04	6.59	-.12	-.00	.25	.05	.22		.02	.02	.012
903- 905	169- 1	0.0	-8.14	11.18	16.20	.07	-.04	.31	-.33	-.22		.01	.01	.034
		6.9	-8.14	8.30	10.77	.07	-.04	.31	-.33	-.15		.01	.01	.031
		13.7	-8.14	5.41	5.35	.07	-.04	.31	-.33	-.08		.01	.01	.028
		20.6	-8.14	2.53	-.08	.07	-.04	.31	-.33	-.03		.01	.01	.026
		27.4	-8.14	-.36	-5.51	.07	-.04	.31	-.33	-.06		.01	.01	.027
903-1002	180- 1	0.0	11.29	-.35	-12.66	-.21	.02	-1.50	.41	.11		.02	.02	.024
		10.6	11.28	2.06	7.41	-.11	.01	-1.50	.41	.07		.01	.01	.022
		21.1	11.28	3.46	14.17	-.00	.01	-1.50	.41	.12		.01	.01	.024
		31.7	11.27	3.89	7.62	.10	-.00	-1.50	.41	.07		.01	.01	.022
		42.2	11.26	3.33	-12.24	.21	-.01	-1.50	.41	.11		.02	.02	.024
903-1003	JL9- 1	0.0	2.63	-100.02	65.28	.83	1.39	-20.65	.04	.15		.06	.06	.008
		8.1	2.60	2.64	2.17	.47	.73	-20.65	.04	.00		.04	.04	.002
		16.2	2.59	44.45	-27.45	.14	.14	-20.65	.04	.07		.02	.02	.004
		24.3	2.57	29.83	-24.80	-.19	-.44	-20.65	.04	.05		.03	.03	.004
		32.4	2.56	-40.32	9.89	-.52	-1.01	-20.65	.04	.05		.05	.05	.004
903-1005	180- 1	0.0	21.79	31.46	5.95	-.06	-.30	-2.07	.79	.27		.03	.03	.048
		10.6	21.77	1.89	8.67	-.02	-.16	-2.07	.79	.08		.02	.02	.040
		21.1	21.75	-9.73	7.86	.03	-.02	-2.07	.79	.11		.01	.01	.041
		31.7	21.74	-3.40	1.52	.07	.12	-2.07	.79	.03		.02	.02	.038
		42.2	21.72	20.88	-10.36	.12	.26	-2.07	.79	.20		.03	.03	.045
904- 905	109- 1	0.0	-.60	-1.16	7.10	.13	.00	.29	-.05	-.24		.03	.03	.014
		6.9	-.60	-.88	-1.13	.07	.00	.29	-.05	-.05		.02	.02	.006
		13.7	-.60	-.59	-3.72	-.00	.00	.29	-.05	-.13		.01	.01	.009
		20.6	-.60	-.31	-.67	-.07	.00	.29	-.05	-.02		.02	.02	.005
		27.4	-.60	-.02	8.02	-.14	.00	.29	-.05	-.27		.03	.03	.015
904- 906	169- 1	0.0	7.45	.92	17.83	.23	-.02	-1.25	.31	.20		.03	.03	.022
		6.9	7.47	-1.05	2.32	.14	-.02	-1.25	.31	.03		.02	.02	.015
		13.7	7.47	-3.05	-6.18	.06	-.02	-1.25	.31	.08		.01	.01	.017
		20.6	7.46	-5.03	-8.39	-.01	-.02	-1.25	.31	.11		.01	.01	.019
		27.4	7.45	-7.02	-5.00	-.07	-.02	-1.25	.31	.09		.01	.01	.018
905- 906	169- 1	0.0	-7.33	.14	9.10	.07	-.04	.28	-.30	-.10		.01	.01	.027
		6.9	-7.33	-2.76	3.46	.07	-.04	.28	-.30	-.05		.01	.01	.024
		13.7	-7.33	-5.66	-2.18	.07	-.04	.28	-.30	-.07		.01	.01	.025
		20.6	-7.33	-8.56	-7.81	.07	-.04	.28	-.30	-.13		.01	.01	.028
		27.4	-7.33	-11.46	-13.45	.07	-.04	.28	-.30	-.19		.01	.01	.030

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 4

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /---	BENDING STRESS Y	Z ---KSI---	Y SHEAR STRESS	Z SHEAR STRESS ---/	COMB. UNITY CHECK
906-1004	180- 1	0.0	-12.42	-6.78	-24.45	-.31	.04	.87	-.45	-.22		.03	.03	.036
		10.6	-12.43	-2.60	5.49	-.16	.02	.87	-.45	-.05		.02	.02	.029
		21.1	-12.45	-.77	16.77	-.02	.01	.87	-.45	-.14		.00	.00	.033
		31.7	-12.47	-1.30	9.40	.13	-.01	.87	-.45	-.06		.01	.01	.030
		42.2	-12.48	-4.17	-16.61	.28	-.03	.87	-.45	-.15		.02	.02	.033
906-1005	180- 1	0.0	-21.87	-20.09	17.77	.12	.18	-1.21	-.80	-.23		.02	.02	.057
		10.6	-21.86	.13	4.07	.09	.13	-1.21	-.80	-.03		.02	.02	.049
		21.1	-21.83	8.24	-4.09	.03	-.00	-1.21	-.79	-.08		.01	.01	.050
		31.7	-21.81	-.52	-4.51	-.05	-.14	-1.21	-.79	-.04		.02	.02	.049
		42.2	-21.79	-26.25	2.84	-.09	-.27	-1.21	-.79	-.23		.03	.03	.056
906-1006	JLV- 1	0.0	-2.65	68.43	-13.64	.65	-1.28	-3.34	-.04	-.09		.04	.04	.006
		8.1	-2.63	-25.29	-58.29	.27	-.65	-3.34	-.04	-.08		.02	.02	.005
		16.2	-2.61	-59.32	-67.42	-.08	-.06	-3.34	-.04	-.11		.00	.00	.007
		24.3	-2.60	-36.90	-44.31	-.40	.52	-3.34	-.04	-.07		.02	.02	.005
		32.4	-2.58	41.33	10.37	-.72	1.09	-3.34	-.04	-.05		.04	.04	.004
1010- 910	P3- 1	0.0	-5.25	-51.47	-568.91	-1.38	.27	10.78	-.02	-.24		.01	.01	.011
		8.1	-5.25	-25.64	-434.40	-1.38	.27	10.78	-.02	-.18		.01	.01	.009
		16.2	-5.25	.19	-299.90	-1.38	.27	10.78	-.02	-.12		.01	.01	.006
		24.3	-5.25	26.02	-165.39	-1.38	.27	10.78	-.02	-.07		.01	.01	.004
		32.4	-5.25	51.85	-30.88	-1.38	.27	10.78	-.02	-.03		.01	.01	.002
1011- 911	P3- 1	0.0	-68.04	609.74	350.44	1.13	-2.00	-14.28	-.27	-.29		.02	.02	.026
		8.1	-68.04	414.95	240.12	1.13	-2.00	-14.28	-.27	-.20		.02	.02	.022
		16.2	-68.04	220.16	129.81	1.13	-2.00	-14.28	-.27	-.11		.02	.02	.018
		24.3	-68.04	25.36	19.49	1.13	-2.00	-14.28	-.27	-.01		.02	.02	.014
		32.4	-68.04	-169.43	-90.83	1.13	-2.00	-14.28	-.27	-.08		.02	.02	.017
1012- 912	P3- 1	0.0	63.55	-585.06	148.81	.03	1.83	-12.67	.25	.25		.02	.02	.022
		8.1	63.55	-407.93	145.91	.03	1.83	-12.67	.25	.18		.02	.02	.019
		16.2	63.55	-230.19	143.01	.03	1.83	-12.67	.25	.11		.02	.02	.016
		24.3	63.55	-52.46	140.12	.03	1.83	-12.67	.25	.06		.02	.02	.014
		32.4	63.55	125.28	137.22	.03	1.83	-12.67	.25	.08		.02	.02	.015
1001-1002	200- 1	0.0	15.30	-20.26	-8.07	.24	.07	.02	.40	.12		.01	.01	.024
		8.0	15.30	-13.44	-23.06	.08	.07	.02	.40	.15		.01	.01	.025
		16.0	15.30	-6.62	-22.66	-.08	.07	.02	.40	.13		.01	.01	.024
		24.0	15.30	.19	-6.86	-.24	.07	.02	.40	.04		.01	.01	.020
		32.0	15.30	7.01	24.34	-.40	.07	.02	.40	.14		.02	.02	.025
1001-1004	200- 1	0.0	-14.89	21.64	-15.01	.13	-.07	-3.85	-.39	-.15		.02	.02	.034
		8.0	-14.86	14.91	-22.37	.02	-.07	-3.85	-.39	-.15		.01	.01	.034
		16.0	-14.83	8.18	-19.22	-.09	-.07	-3.85	-.39	-.12		.02	.02	.032
		24.0	-14.80	1.44	-5.55	-.20	-.07	-3.85	-.39	-.03		.02	.02	.029
		32.0	-14.77	-5.29	18.65	-.31	-.07	-3.85	-.39	-.11		.03	.03	.032

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 4

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAN FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /----	BENDING STRESS Y	Z ----KSI----	Y SHEAR STRESS	Z SHEAR STRESS ----/	COMB. UNITY CHECK
1002-1003	200- 1	0.0	.05	-.78	19.77	.36	.03	4.48	.00	.11		.03	.03	.005
		8.0	.05	2.46	-7.17	.20	.03	4.48	.00	.04		.02	.02	.002
		16.0	.05	5.71	-18.70	.04	.03	4.48	.00	.11		.02	.02	.005
		24.0	.05	8.95	-14.84	-.12	.03	4.48	.00	.10		.02	.02	.004
		32.0	.05	12.20	4.42	-.28	.03	4.48	.00	.07		.03	.03	.003
1002-1004	140- 1	0.0	.13	12.16	.30	.00	-.07	-2.54	.01	.23		.03	.03	.010
		8.0	.13	5.73	.17	.00	-.07	-2.54	.01	.11		.03	.03	.005
		16.0	.13	-.71	.04	.00	-.07	-2.54	.01	.01		.03	.03	.001
		24.0	.13	-7.15	-.09	.00	-.07	-2.54	.01	.13		.03	.03	.006
		32.0	.13	-13.59	-.22	.00	-.07	-2.54	.01	.26		.03	.03	.011
1002-1005	140- 1	0.0	1.34	11.56	8.55	.14	-.05	.75	.08	.27		.03	.03	.015
		8.0	1.30	6.72	-1.33	.07	-.05	.75	.08	.13		.02	.02	.009
		16.0	1.26	1.87	-4.54	-.00	-.05	.75	.08	.09		.01	.01	.008
		24.0	1.22	-2.98	-1.07	-.07	-.05	.75	.08	.06		.02	.02	.006
		32.0	1.18	-7.83	9.06	-.14	-.05	.75	.07	.22		.03	.03	.013
1003-1005	200- 1	0.0	-16.35	37.96	26.41	.10	-.16	1.79	-.43	-.26		.02	.02	.041
		8.0	-16.35	22.17	17.21	.10	-.16	1.79	-.43	-.16		.02	.02	.037
		16.0	-16.35	6.38	8.01	.10	-.16	1.79	-.43	-.06		.02	.02	.033
		24.0	-16.35	-9.42	-1.19	.10	-.16	1.79	-.43	-.05		.02	.02	.032
		32.0	-16.35	-25.21	-10.40	.10	-.16	1.79	-.43	-.15		.02	.02	.037
1004-1005	140- 1	0.0	-1.47	-8.10	9.86	.16	.03	.89	-.09	-.24		.03	.03	.015
		8.0	-1.47	-5.54	-1.55	.08	.03	.89	-.09	-.11		.02	.02	.010
		16.0	-1.47	-2.98	-5.26	-.00	.03	.89	-.09	-.11		.01	.01	.010
		24.0	-1.47	-.43	-1.27	-.08	.03	.89	-.09	-.03		.02	.02	.006
		32.0	-1.47	2.13	10.41	-.16	.03	.89	-.09	-.20		.03	.03	.014
1004-1006	200- 1	0.0	2.42	8.48	8.32	.21	-.06	3.44	.06	.07		.02	.02	.006
		8.0	2.45	2.28	-7.02	.10	-.06	3.44	.06	.04		.02	.02	.005
		16.0	2.48	-3.91	-11.84	-.00	-.06	3.44	.07	.07		.01	.01	.006
		24.0	2.51	-10.10	-6.15	-.11	-.06	3.44	.07	.07		.02	.02	.006
		32.0	2.54	-16.30	10.07	-.22	-.06	3.44	.07	.11		.02	.02	.009
1005-1006	200- 1	0.0	13.88	17.38	6.65	.06	-.14	-3.34	.36	.10		.02	.02	.021
		8.0	13.88	3.68	1.22	.06	-.14	-3.34	.36	.02		.02	.02	.018
		16.0	13.88	-10.02	-4.21	.06	-.14	-3.34	.36	.06		.02	.02	.019
		24.0	13.88	-23.72	-9.64	.06	-.14	-3.34	.36	.14		.02	.02	.023
		32.0	13.88	-37.42	-15.07	.06	-.14	-3.34	.36	.23		.02	.02	.026

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
101- 102	W18- 1	0.0	-.01	.13	1.67	.01	-.00	-.00	-.00	.00	.16	.00	.00	.007
		3.6	-.01	.05	1.06	.01	-.00	-.00	-.00	.00	.10	.00	.00	.005
		7.3	-.01	-.02	.49	.01	-.00	-.00	-.00	-.00	.05	.00	.00	.002
		10.9	-.01	-.10	-.09	.01	-.00	-.00	-.00	-.00	-.01	.00	.00	.000
		14.5	-.01	-.18	-.66	.01	-.00	-.00	-.00	-.00	-.06	.00	.00	.003
101- 104	W18- 1	0.0	-.03	.15	1.74	.01	-.00	.00	-.00	.00	.16	.00	.00	.008
		3.6	-.03	.12	1.10	.01	-.00	.00	-.00	.00	.10	.00	.00	.005
		7.2	-.03	.08	.46	.01	-.00	.00	-.00	.00	.04	.00	.00	.002
		10.9	-.03	.05	-.19	.01	-.00	.00	-.00	.00	-.02	.00	.00	.001
		14.5	-.03	.01	-.83	.01	-.00	.00	-.00	.00	-.08	.00	.00	.004
101- 201	DRL- 1	0.0	-.00	-.15	.21	.01	.05	3.41	-.00	-.00		.00	.00	.000
		3.8	-.00	2.04	-.18	.01	.05	3.41	-.00	-.00		.00	.00	.000
		7.5	-.00	4.21	-.56	.01	.05	3.41	-.00	-.01		.00	.00	.000
		11.3	-.00	6.38	-.95	.01	.05	3.41	-.00	-.01		.00	.00	.000
		15.0	-.00	8.56	-1.34	.01	.05	3.41	-.00	-.01		.00	.00	.001
102- 103	W18- 1	0.0	.01	-.17	-.57	-.01	-.00	.00	.00	-.00	-.05	.00	.00	.003
		3.6	.01	-.26	-.22	-.01	-.00	.00	.00	-.00	-.02	.00	.00	.001
		7.3	.01	-.34	.13	-.01	-.00	.00	.00	-.00	.01	.00	.00	.001
		10.9	.01	-.42	.49	-.01	-.00	.00	.00	-.00	.05	.00	.00	.002
		14.5	.01	-.50	.84	-.01	-.00	.00	.00	-.01	.08	.00	.00	.004
102- 104	W08- 1	0.0	.01	.01	-.11	-.00	.00	-.00	.00	.00	-.02	.00	.00	.001
		3.6	.01	.01	-.06	-.00	.00	-.00	.00	.00	-.01	.00	.00	.001
		7.2	.01	.01	-.02	-.00	.00	-.00	.00	.00	-.00	.00	.00	.000
		10.9	.01	.02	.03	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		14.5	.01	.02	.07	-.00	.00	-.00	.00	.00	.01	.00	.00	.001
102- 105	W08- 1	0.0	-.03	-.01	.00	.00	.00	.00	-.00	-.00	.00	.00	.00	.000
		3.6	-.03	-.00	-.03	.00	.00	.00	-.00	-.00	-.01	.00	.00	.001
		7.2	-.03	-.00	-.07	.00	.00	.00	-.00	-.00	-.01	.00	.00	.001
		10.9	-.03	-.00	-.11	.00	.00	.00	-.00	-.00	-.02	.00	.00	.001
		14.5	-.03	-.00	-.14	.00	.00	.00	-.00	-.00	-.03	.00	.00	.002
103- 105	W18- 1	0.0	.02	-.48	-.54	-.00	.00	-.00	.00	-.01	-.05	.00	.00	.003
		3.6	.02	-.34	-.41	-.00	.00	-.00	.00	-.00	-.04	.00	.00	.002
		7.2	.02	-.21	-.29	-.00	.00	-.00	.00	-.00	-.03	.00	.00	.001
		10.9	.02	-.08	-.17	-.00	.00	-.00	.00	-.00	-.02	.00	.00	.001
		14.5	.02	.06	-.05	-.00	.00	-.00	.00	.00	-.00	.00	.00	.000
103- 203	DRL- 1	0.0	.00	.41	.74	.03	-.01	-1.37	.00	.00		.00	.00	.000
		3.8	.00	-.07	-.54	.03	-.01	-1.37	.00	.00		.00	.00	.000
		7.5	.00	-.55	-1.83	.03	-.01	-1.37	.00	.00		.00	.00	.000
		11.3	.00	-1.02	-3.12	.03	-.01	-1.37	.00	.01		.00	.00	.000
		15.0	.00	-1.50	-4.40	.03	-.01	-1.37	.00	.01		.00	.00	.000

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
104- 105	W06- 1	0.0	.02	-.02	.06	.00	.00	-.00	.00	-.00	.01	.00	.00	.001
		3.6	.02	-.01	.01	.00	.00	-.00	.00	-.00	.00	.00	.00	.000
		7.3	.02	-.01	-.05	.00	.00	-.00	.00	-.00	-.01	.00	.00	.001
		10.9	.02	-.00	-.12	.00	.00	-.00	.00	-.00	-.02	.00	.00	.001
		14.5	.02	.00	-.18	.00	.00	-.00	.00	.00	-.03	.00	.00	.002
104- 106	W18- 1	0.0	-.04	.03	-.83	-.01	-.00	.00	-.00	.00	-.08	.00	.00	.004
		3.6	-.04	-.01	-.23	-.01	-.00	.00	-.00	-.00	-.02	.00	.00	.001
		7.3	-.04	-.04	.38	-.01	-.00	.00	-.00	-.00	.04	.00	.00	.002
		10.9	-.04	-.08	.99	-.01	-.00	.00	-.00	-.00	.09	.00	.00	.004
		14.5	-.04	-.12	1.60	-.01	-.00	.00	-.00	-.00	.15	.00	.00	.007
105- 106	W18- 1	0.0	-.01	.05	-.37	-.01	.00	.00	-.00	.00	-.03	.00	.00	.002
		3.6	-.01	.19	.06	-.01	.00	.00	-.00	.00	.01	.00	.00	.000
		7.3	-.01	.33	.50	-.01	.00	.00	-.00	.00	.05	.00	.00	.002
		10.9	-.01	.47	.94	-.01	.00	.00	-.00	.01	.09	.00	.00	.004
		14.5	-.01	.61	1.38	-.01	.00	.00	-.00	.01	.13	.00	.00	.006
106- 206	DKL- 1	0.0	-.03	.57	.45	-.01	-.00	-5.53	-.00	-.00		.00	.00	.000
		3.8	-.03	.44	1.00	-.01	-.00	-5.53	-.00	-.00		.00	.00	.000
		7.5	-.03	.31	1.55	-.01	-.00	-5.53	-.00	-.00		.00	.00	.000
		11.3	-.03	.17	2.11	-.01	-.00	-5.53	-.00	-.00		.00	.00	.000
		15.0	-.03	.04	2.66	-.01	-.00	-5.53	-.00	-.00		.00	.00	.000
201- 202	W18- 1	0.0	.60	-.12	1.77	.01	-.00	-.00	.04	-.00	.16	.00	.00	.009
		3.6	.60	-.12	1.14	.01	-.00	-.00	.04	-.00	.11	.00	.00	.007
		7.3	.60	-.13	.52	.01	-.00	-.00	.04	-.00	.05	.00	.00	.004
		10.9	.60	-.13	-.11	.01	-.00	-.00	.04	-.00	-.01	.00	.00	.002
		14.5	.60	-.14	-.74	.01	-.00	-.00	.04	-.00	-.07	.00	.00	.005
201- 204	W18- 1	0.0	.12	-.49	1.86	.02	.00	.00	.01	-.01	.17	.00	.00	.009
		3.6	.12	-.41	1.17	.02	.00	.00	.01	-.00	.11	.00	.00	.006
		7.2	.12	-.33	.48	.02	.00	.00	.01	-.00	.05	.00	.00	.003
		10.9	.12	-.25	-.20	.02	.00	.00	.01	-.00	-.02	.00	.00	.001
		14.5	.12	-.17	-.89	.02	.00	.00	.01	-.00	-.08	.00	.00	.004
201- 301	DKL- 1	0.0	.26	7.58	-2.14	-.24	-.06	15.37	.00	.01		.02	.02	.001
		3.8	.26	4.94	8.77	-.24	-.06	15.37	.00	.02		.02	.02	.001
		7.5	.26	2.31	19.68	-.24	-.06	15.37	.00	.03		.02	.02	.001
		11.3	.26	-.33	30.59	-.24	-.06	15.37	.00	.05		.02	.02	.002
		15.0	.26	-2.97	41.50	-.24	-.06	15.37	.00	.07		.02	.02	.003
201- 303	120- 1	0.0	-.51	-.87	4.71	.01	.01	-.31	-.03	-.08		.00	.00	.005
		8.2	-.51	-.23	3.82	.01	.01	-.31	-.03	-.07		.00	.00	.004
		16.3	-.51	.40	2.94	.01	.01	-.31	-.03	-.05		.00	.00	.004
		24.5	-.51	1.03	2.05	.01	.01	-.31	-.03	-.04		.00	.00	.003
		32.6	-.51	1.67	1.16	.01	.01	-.31	-.03	-.04		.00	.00	.003

S T R A N   M E M B E R   D E T A I L   R E P O R T

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LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /----------	BENDING STRESS Y ----------	Z KSI----------	Y SHEAR STRESS	Z SHEAR STRESS ----------/	COMB. UNITY CHECK
202- 203	W18- 1	0.0	.62	-.12	-.64	-.01	-.00	-.00	.04	-.00	-.06	.00	.00	.005
		3.6	.62	-.12	-.25	-.01	-.00	-.00	.04	-.00	-.02	.00	.00	.003
		7.3	.62	-.13	.14	-.01	-.00	-.00	.04	-.00	.01	.00	.00	.002
		10.9	.62	-.13	.53	-.01	-.00	-.00	.04	-.00	.05	.00	.00	.004
		14.5	.62	-.14	.92	-.01	-.00	-.00	.04	-.00	.09	.00	.00	.006
202- 204	W08- 1	0.0	.01	.02	-.11	-.00	-.00	.00	.00	.00	-.02	.00	.00	.001
		3.6	.01	.02	-.06	-.00	-.00	.00	.00	.00	-.01	.00	.00	.001
		7.2	.01	.02	-.01	-.00	-.00	.00	.00	.00	-.00	.00	.00	.000
		10.9	.01	.01	.04	-.00	-.00	.00	.00	.00	.01	.00	.00	.000
		14.5	.01	.01	.09	-.00	-.00	.00	.00	.00	.02	.00	.00	.001
202- 205	W08- 1	0.0	-.03	-.02	.01	.00	.00	.00	-.00	-.00	.00	.00	.00	.001
		3.6	-.03	-.02	-.03	.00	.00	.00	-.00	-.00	-.01	.00	.00	.001
		7.2	-.03	-.02	-.07	.00	.00	.00	-.00	-.00	-.01	.00	.00	.001
		10.9	-.03	-.02	-.12	.00	.00	.00	-.00	-.00	-.02	.00	.00	.001
		14.5	-.03	-.01	-.16	.00	.00	.00	-.00	-.00	-.03	.00	.00	.002
203- 205	W18- 1	0.0	-.32	-.33	-.61	-.00	.00	.00	-.02	-.00	-.06	.00	.00	.004
		3.6	-.32	-.21	-.46	-.00	.00	.00	-.02	-.00	-.04	.00	.00	.003
		7.2	-.32	-.08	-.31	-.00	.00	.00	-.02	-.00	-.03	.00	.00	.002
		10.9	-.32	.04	-.15	-.00	.00	.00	-.02	.00	-.01	.00	.00	.002
		14.5	-.32	.16	-.00	-.00	.00	.00	-.02	.00	-.00	.00	.00	.001
203- 303	DKL- 1	0.0	.26	-3.17	-1.16	.28	.72	-7.99	.00	.01		.02	.02	.000
		3.8	.26	29.27	-13.60	.28	.72	-7.99	.00	.05		.02	.02	.002
		7.5	.26	61.72	-26.05	.28	.72	-7.99	.00	.10		.02	.02	.005
		11.3	.26	94.16	-38.49	.28	.72	-7.99	.00	.16		.02	.02	.007
		15.0	.26	126.61	-50.93	.28	.72	-7.99	.00	.21		.02	.02	.009
203- 306	120- 1	0.0	-.55	.22	-6.14	-.04	-.00	-.80	-.03	-.11		.01	.01	.006
		8.2	-.55	.07	-2.67	-.04	-.00	-.80	-.03	-.05		.01	.01	.004
		16.3	-.55	-.07	.80	-.04	-.00	-.80	-.03	-.01		.01	.01	.002
		24.5	-.55	-.22	4.27	-.04	-.00	-.80	-.03	-.08		.01	.01	.005
		32.6	-.55	-.37	7.73	-.04	-.00	-.80	-.03	-.14		.01	.01	.008
204- 205	W08- 1	0.0	.03	-.01	.07	.00	.00	-.00	.00	-.00	.01	.00	.00	.001
		3.6	.03	-.01	.00	.00	.00	-.00	.00	-.00	.00	.00	.00	.000
		7.3	.03	.00	-.06	.00	.00	-.00	.00	.00	-.01	.00	.00	.001
		10.9	.03	.01	-.13	.00	.00	-.00	.00	.00	-.02	.00	.00	.001
		14.5	.03	.01	-.19	.00	.00	-.00	.00	.00	-.03	.00	.00	.002
204- 206	W18- 1	0.0	.11	-.16	-.88	-.01	.00	.00	.01	-.00	-.08	.00	.00	.004
		3.6	.11	-.09	-.24	-.01	.00	.00	.01	-.00	-.02	.00	.00	.001
		7.3	.11	-.01	.40	-.01	.00	.00	.01	-.00	.04	.00	.00	.002
		10.9	.11	.06	1.04	-.01	.00	.00	.01	.00	.10	.00	.00	.005
		14.5	.11	.13	1.68	-.01	.00	.00	.01	.00	.16	.00	.00	.008

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
205- 206	W18- 1	0.0	-.36	.15	-.36	-.01	.00	.00	-.02	.00	-.03	.00	.00	.003
		3.6	-.36	.28	.09	-.01	.00	.00	-.02	.00	.01	.00	.00	.002
		7.3	-.36	.41	.54	-.01	.00	.00	-.02	.00	.05	.00	.00	.004
		10.9	-.36	.55	.98	-.01	.00	.00	-.02	.01	.09	.00	.00	.006
		14.5	-.36	.68	1.43	-.01	.00	.00	-.02	.01	.13	.00	.00	.008
206- 301	120- 1	0.0	.40	-.27	-1.82	.01	.00	1.26	.02	.03		.01	.01	.002
		8.2	.40	-.10	-2.68	.01	.00	1.26	.02	.05		.01	.01	.003
		16.3	.40	.07	-3.55	.01	.00	1.26	.02	.06		.01	.01	.004
		24.5	.40	.23	-4.42	.01	.00	1.26	.02	.08		.01	.01	.004
		32.6	.40	.40	-5.29	.01	.00	1.26	.02	.09		.01	.01	.005
206- 306	DKL- 1	0.0	-.21	.66	3.31	.38	.09	-10.84	-.00	-.01		.02	.02	.000
		3.8	-.21	4.64	-13.91	.38	.09	-10.84	-.00	-.02		.02	.02	.001
		7.5	-.21	8.62	-31.14	.38	.09	-10.84	-.00	-.05		.02	.02	.002
		11.3	-.21	12.60	-48.36	.38	.09	-10.84	-.00	-.08		.02	.02	.003
		15.0	-.21	16.58	-65.59	.38	.09	-10.84	-.00	-.11		.02	.02	.005
301- 303	123- 1	0.0	-1.55	.47	8.52	.03	.00	.87	-.08	-.15		.01	.01	.011
		7.3	-1.55	.65	6.02	.03	.00	.87	-.08	-.11		.01	.01	.009
		14.5	-1.55	.83	3.51	.03	.00	.87	-.08	-.06		.01	.01	.007
		21.7	-1.55	1.02	1.01	.03	.00	.87	-.08	-.03		.01	.01	.006
		29.0	-1.55	1.20	-1.49	.03	.00	.87	-.08	-.03		.01	.01	.006
301- 306	123- 1	0.0	-.77	-.52	5.20	.00	.01	-.56	-.04	-.09		.01	.01	.006
		7.2	-.77	.00	4.92	.00	.01	-.56	-.04	-.09		.01	.01	.006
		14.5	-.77	.52	4.63	.00	.01	-.56	-.04	-.08		.01	.01	.006
		21.7	-.77	1.05	4.34	.00	.01	-.56	-.04	-.08		.01	.01	.006
		29.0	-.77	1.57	4.06	.00	.01	-.56	-.04	-.08		.01	.01	.006
301- 401	DKL- 1	0.0	-.64	-7.26	48.22	.44	.36	40.82	-.01	-.08		.04	.04	.004
		7.1	-.64	23.16	10.88	.44	.36	40.82	-.01	-.04		.04	.04	.002
		14.2	-.64	53.58	-26.46	.44	.36	40.82	-.01	-.09		.04	.04	.004
		21.4	-.64	84.01	-63.80	.44	.36	40.82	-.01	-.17		.04	.04	.007
		28.5	-.64	113.69	-101.57	.55	.17	40.82	-.01	-.24		.04	.04	.010
303- 306	123- 1	0.0	1.73	-3.00	-8.09	-.05	.01	.37	.09	.15		.01	.01	.011
		7.2	1.73	-1.94	-3.49	-.05	.01	.37	.09	.07		.01	.01	.007
		14.5	1.73	-.87	1.12	-.05	.01	.37	.09	.02		.01	.01	.005
		21.7	1.73	.19	5.72	-.05	.01	.37	.09	.10		.01	.01	.008
		29.0	1.73	1.26	10.33	-.05	.01	.37	.09	.18		.01	.01	.012
303- 403	DKL- 1	0.0	.03	130.52	-52.62	-.81	-.79	-15.77	.00	.22		.04	.04	.009
		7.1	.03	63.00	16.31	-.81	-.79	-15.77	.00	.10		.04	.04	.004
		14.2	.03	-4.51	85.25	-.81	-.79	-15.77	.00	.13		.04	.04	.006
		21.4	.03	-72.03	154.18	-.81	-.79	-15.77	.00	.27		.04	.04	.011
		28.5	.03	-147.52	218.62	-.45	-1.43	-15.77	.00	.41		.05	.05	.017

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
306- 406	DKL- 1	0.0	-.48	16.82	-63.64	-.70	.45	-32.45	-.01	-.10		.04	.04	.005
		7.1	-.48	55.63	-4.14	-.70	.45	-32.45	-.01	-.09		.04	.04	.004
		14.2	-.48	94.43	55.36	-.70	.45	-32.45	-.01	-.17		.04	.04	.007
		21.4	-.48	133.23	114.86	-.70	.45	-32.45	-.01	-.28		.04	.04	.012
		28.5	-.48	172.03	174.35	-.70	.45	-32.45	-.01	-.38		.04	.04	.016
401- 501	JL4- 1	0.0	-6.07	-63.09	-133.13	-9.09	-1.57	57.27	-.02	-.05		.08	.08	.003
		1.1	-6.06	-85.11	-4.41	-9.72	-1.56	57.27	-.02	-.03		.09	.09	.002
		2.3	-6.06	-106.32	132.87	-10.34	-1.54	57.27	-.02	-.06		.09	.09	.004
		3.4	-6.06	-127.33	278.53	-10.94	-1.53	57.27	-.02	-.11		.10	.10	.006
		4.6	-6.06	-148.16	432.40	-11.54	-1.52	57.27	-.02	-.16		.10	.10	.008
401- 510	P1- 1	0.0	5.35	-81.37	80.14	8.96	1.13	-24.78	.02	.05		.09	.09	.003
		1.1	5.35	-65.87	-42.71	8.96	1.13	-24.78	.02	.04		.09	.09	.003
		2.3	5.35	-50.37	-165.55	8.96	1.13	-24.78	.02	.08		.09	.09	.005
		3.4	5.35	-34.87	-288.40	8.96	1.13	-24.78	.02	.14		.09	.09	.007
		4.6	5.35	-19.37	-411.24	8.96	1.13	-24.78	.02	.19		.09	.09	.009
403- 503	JL4- 1	0.0	-268.75	-152.85	-59.16	5.16	3.45	-113.26	-1.06	-.06		.07	.07	.052
		1.1	-268.74	-101.88	-131.91	5.47	4.00	-113.26	-1.06	-.06		.07	.07	.052
		2.3	-268.74	-43.40	-208.83	5.77	4.54	-113.26	-1.06	-.08		.08	.08	.052
		3.4	-268.74	22.43	-289.82	6.06	5.07	-113.26	-1.06	-.10		.08	.08	.054
		4.6	-268.73	95.47	-374.79	6.35	5.59	-113.26	-1.06	-.14		.09	.09	.055
403- 511	P1- 1	0.0	269.94	40.35	-183.84	-3.80	-1.78	64.62	1.22	.09		.05	.05	.060
		1.1	269.94	15.89	-131.71	-3.80	-1.78	64.62	1.22	.06		.05	.05	.059
		2.3	269.94	-8.57	-79.57	-3.80	-1.78	64.62	1.22	.04		.05	.05	.058
		3.4	269.94	-33.03	-27.43	-3.80	-1.78	64.62	1.22	.02		.05	.05	.057
		4.6	269.94	-57.49	24.70	-3.80	-1.78	64.62	1.22	.03		.05	.05	.058
406- 506	JL4- 1	0.0	278.94	126.11	111.50	1.95	-2.68	-88.49	1.10	.06		.04	.04	.053
		1.1	278.94	89.42	84.82	1.95	-2.68	-88.49	1.10	.04		.04	.04	.053
		2.3	278.94	51.10	57.23	2.15	-3.03	-88.49	1.10	.03		.04	.04	.052
		3.4	278.94	6.17	25.83	2.44	-3.53	-88.49	1.10	.01		.05	.05	.051
		4.6	278.94	-45.58	-9.54	2.73	-4.03	-88.49	1.10	.02		.05	.05	.051
406- 512	P1- 1	0.0	-279.34	45.92	65.85	-2.64	3.11	85.12	-1.26	-.04		.06	.06	.060
		1.1	-279.34	88.54	102.12	-2.64	3.11	85.12	-1.26	-.06		.06	.06	.062
		2.3	-279.34	131.15	138.40	-2.64	3.11	85.12	-1.26	-.09		.06	.06	.063
		3.4	-279.34	173.78	174.67	-2.64	3.11	85.12	-1.26	-.12		.06	.06	.064
		4.6	-279.34	216.40	210.95	-2.64	3.11	85.12	-1.26	-.14		.06	.06	.065
501- 502	165- 1	0.0	5.79	-15.23	69.29	-.16	.23	-7.88	.19	.64		.05	.05	.036
		3.8	5.79	-6.48	66.09	.30	.16	-7.88	.19	.59		.06	.06	.034
		7.6	5.79	-.75	41.81	.77	.10	-7.88	.19	.37		.09	.09	.025
		11.4	5.79	2.40	-4.00	1.25	.04	-7.88	.19	.04		.12	.12	.011
		15.1	5.79	3.41	-71.75	1.74	.00	-7.88	.19	.64		.15	.15	.036

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 5

U.S. NAVY - ACMH PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
501- 504	165- 1	0.0	-23.24	-59.28	71.97	-.06	.61	3.14	-.77	-.83		.05	.05	.078
		3.8	-23.24	-33.34	63.87	.41	.53	3.14	-.77	-.65		.06	.06	.070
		7.6	-23.23	-11.29	34.59	.87	.44	3.14	-.77	-.33		.08	.08	.056
		11.4	-23.23	6.47	-15.50	1.33	.34	3.14	-.77	-.15		.10	.10	.049
		15.1	-23.24	19.50	-86.02	1.77	.23	3.14	-.77	-.79		.13	.13	.076
501- 601	JL5- 1	0.0	-19.52	-189.67	208.96	14.04	3.53	84.99	-.14	-.18		.23	.23	.014
		1.5	-19.52	-125.13	-40.17	13.27	3.55	84.99	-.14	-.08		.22	.22	.010
		3.0	-19.51	-60.28	-275.53	12.53	3.56	84.99	-.14	-.18		.21	.21	.014
		4.6	-19.51	4.69	-497.57	11.81	3.58	84.99	-.14	-.31		.20	.20	.020
		6.1	-19.51	70.38	-706.65	11.11	3.60	84.99	-.14	-.45		.19	.19	.025
501- 622	200- 1	0.0	25.16	97.23	-210.84	-2.84	-1.23	-6.66	.66	1.30		.18	.18	.085
		5.1	25.15	28.04	-58.37	-2.14	-1.03	-6.66	.66	.36		.14	.14	.046
		10.2	25.14	-28.06	52.29	-1.47	-.80	-6.66	.66	.33		.11	.11	.045
		15.3	25.13	-69.30	123.02	-.84	-.55	-6.66	.66	.79		.07	.07	.064
		20.4	25.12	-95.44	156.70	-.26	-.30	-6.66	.66	1.03		.04	.04	.074
502- 503	165- 1	0.0	8.83	5.15	-43.47	-1.16	-.18	3.48	.29	.39		.09	.09	.030
		3.8	8.83	-3.78	-2.00	-.67	-.21	3.48	.29	.04		.06	.06	.015
		7.6	8.83	-13.93	17.08	-.17	-.23	3.48	.29	.20		.03	.03	.022
		11.4	8.83	-24.78	13.79	.32	-.24	3.48	.29	.25		.04	.04	.024
		15.1	8.83	-35.84	-11.88	.81	-.24	3.48	.29	.34		.07	.07	.028
502- 504	105- 1	0.0	.53	-4.93	-5.18	-.04	.04	1.03	.04	.24		.03	.03	.012
		3.8	.53	-2.39	-3.20	-.04	.07	1.03	.04	.13		.03	.03	.008
		7.6	.53	.65	-1.21	-.04	.07	1.03	.04	.05		.03	.03	.004
		11.4	.53	3.69	.77	-.04	.07	1.03	.04	.13		.03	.03	.007
		15.2	.53	6.23	2.76	-.04	.04	1.03	.04	.23		.03	.03	.012
502- 505	105- 1	0.0	-4.25	-7.35	-23.10	-.71	.14	-.42	-.36	-.81		.13	.13	.054
		3.8	-4.27	-1.96	1.15	-.35	.10	-.42	-.36	-.08		.07	.07	.023
		7.6	-4.28	1.28	9.16	.00	.04	-.42	-.36	-.31		.01	.01	.033
		11.4	-4.29	1.94	.94	.36	-.02	-.42	-.36	-.07		.07	.07	.023
		15.2	-4.30	-.42	-23.52	.72	-.09	-.42	-.36	-.79		.13	.13	.053
503- 505	165- 1	0.0	14.28	-38.10	-24.75	-.15	.16	-7.70	.47	.41		.05	.05	.039
		3.8	14.28	-28.93	-18.08	-.15	.24	-7.70	.47	.31		.05	.05	.035
		7.6	14.28	-16.39	-11.41	-.15	.31	-7.70	.47	.18		.06	.06	.029
		11.4	14.28	-1.27	-4.73	-.15	.35	-7.70	.47	.04		.06	.06	.024
		15.1	14.28	15.15	1.94	-.15	.37	-7.70	.47	.14		.06	.06	.028
503- 603	JL5- 1	0.0	-225.13	160.91	-289.51	-9.72	-7.44	-208.97	-1.57	-.21		.24	.24	.082
		1.5	-225.12	31.41	-115.68	-9.34	-6.76	-208.97	-1.57	-.08		.23	.23	.077
		3.0	-225.12	-86.01	51.45	-8.98	-6.11	-208.97	-1.57	-.06		.22	.22	.076
		4.6	-225.12	-191.76	212.08	-8.63	-5.48	-208.97	-1.57	-.18		.21	.21	.081
		6.1	-225.12	-286.16	366.40	-8.29	-4.87	-208.97	-1.57	-.29		.20	.20	.086

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /----	BENDING STRESS Y	Z ----KSI----	Y SHEAR STRESS	Z SHEAR STRESS ----/	COMB. UNITY CHECK
503- 625	200- 1	0.0	-48.42	-179.77	-73.92	-.42	2.02	-10.28	-1.27	-1.09		.14	.14	.109
		5.1	-48.43	-68.92	-49.66	-.38	1.62	-10.28	-1.27	-.48		.12	.12	.083
		10.1	-48.43	16.05	-28.16	-.33	1.20	-10.28	-1.27	-.18		.09	.09	.071
		15.2	-48.42	76.52	-9.43	-.29	.77	-10.28	-1.27	-.43		.07	.07	.082
		20.3	-48.41	109.87	6.53	-.24	.33	-10.28	-1.27	-.62		.05	.05	.089
504- 505	105- 1	0.0	3.63	-1.79	-17.77	-.66	.18	-.45	.30	.60		.12	.12	.039
		3.8	3.63	3.75	4.32	-.31	.07	-.45	.30	.19		.06	.06	.022
		7.6	3.63	4.54	10.47	.04	-.03	-.45	.30	.38		.02	.02	.030
		11.4	3.63	1.03	.24	.41	-.12	-.45	.30	.04		.08	.08	.016
		15.2	3.63	-6.37	-26.80	.78	-.20	-.45	.30	.92		.14	.14	.053
504- 506	165- 1	0.0	-25.40	23.00	-65.50	-1.51	.10	7.74	-.84	-.62		.13	.13	.073
		3.8	-25.40	24.65	-7.07	-1.06	-.03	7.74	-.84	-.23		.11	.11	.056
		7.6	-25.41	20.26	31.28	-.62	-.17	7.74	-.84	-.33		.08	.08	.061
		11.4	-25.42	9.00	49.55	-.18	-.33	7.74	-.84	-.45		.06	.06	.066
		15.2	-25.43	-10.02	47.74	.26	-.51	7.74	-.84	-.44		.07	.07	.065
505- 506	165- 1	0.0	9.01	17.37	-48.38	-.76	.08	-1.82	.30	.46		.06	.06	.033
		3.8	9.01	20.81	-13.99	-.76	.08	-1.82	.30	.22		.06	.06	.023
		7.6	9.01	24.19	20.39	-.76	.07	-1.82	.30	.28		.06	.06	.026
		11.4	9.01	26.70	54.78	-.76	.04	-1.82	.30	.55		.06	.06	.037
		15.2	9.01	27.06	89.16	-.76	-.03	-1.82	.30	.83		.06	.06	.049
506- 606	JL5- 1	0.0	261.20	130.14	98.35	-1.86	4.53	.19	1.83	.10		.07	.07	.089
		1.5	261.20	206.94	128.87	-1.49	3.89	.19	1.83	.15		.06	.06	.091
		3.0	261.21	272.19	152.73	-1.13	3.26	.19	1.83	.20		.05	.05	.093
		4.6	261.21	326.19	170.18	-.78	2.66	.19	1.83	.23		.04	.04	.094
		6.1	261.21	369.56	181.38	-.45	2.08	.19	1.83	.26		.03	.03	.095
506- 624	200- 1	0.0	31.81	76.39	265.75	3.10	-.55	12.70	.84	1.55		.20	.20	.104
		5.1	31.83	44.09	97.89	2.43	-.51	12.70	.84	.60		.17	.17	.064
		10.1	31.85	14.01	-29.49	1.77	-.45	12.70	.84	.18		.13	.13	.047
		15.2	31.86	-10.63	-117.83	1.14	-.38	12.70	.84	.66		.10	.10	.067
		20.2	31.87	-31.57	-169.10	.55	-.31	12.70	.84	.96		.07	.07	.079
510- 710	P1- 1	0.0	5.36	-16.78	-411.36	2.91	1.16	-24.68	.02	.19		.03	.03	.009
		6.3	5.36	71.79	-632.48	2.91	1.16	-24.68	.02	.30		.03	.03	.014
		12.7	5.36	160.36	-853.59	2.91	1.16	-24.68	.02	.41		.03	.03	.018
		19.0	5.36	248.93	-1074.70	2.91	1.16	-24.68	.02	.52		.03	.03	.023
		25.3	5.36	337.51	-1295.82	2.91	1.16	-24.68	.02	.63		.03	.03	.027
511- 711	P1- 1	0.0	269.95	-57.27	25.06	-3.84	-3.40	64.68	1.22	.03		.06	.06	.058
		6.3	269.95	-315.89	316.92	-3.84	-3.40	64.68	1.22	.21		.06	.06	.065
		12.7	269.95	-574.52	608.76	-3.84	-3.40	64.68	1.22	.39		.06	.06	.073
		19.0	269.95	-833.14	900.60	-3.84	-3.40	64.68	1.22	.57		.06	.06	.081
		25.3	269.95	-1091.77	1192.44	-3.84	-3.40	64.68	1.22	.76		.06	.06	.088

S T R A N M E M B E R D E T A I L R E P O R T

LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
512- 712	P1- 1	0.0	-279.34	216.40	210.90	.64	1.94	85.22	-1.26	-.14		.04	.04	.067
		6.3	-279.34	363.70	147.33	.64	1.94	85.22	-1.26	-.18		.04	.04	.069
		12.7	-279.34	511.01	83.76	.64	1.94	85.22	-1.26	-.24		.04	.04	.072
		19.0	-279.34	658.31	20.19	.64	1.94	85.22	-1.26	-.31		.04	.04	.075
		25.3	-279.34	805.61	-43.39	.64	1.94	85.22	-1.26	-.38		.04	.04	.077

ERROR NO. 96
EQUILIBRIUM CHECK -3.6442704E-03 -.2546711 1.5594757E-02 5.3023541E-10 -5.2907422E-02 -.8585454
MEMBER 601 621

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
601- 621	JL6- 1	0.0	-18.73	93.94	-695.38	6.28	1.50	231.14	-.13	-.44		.16	.16	.025
		1.5	-18.73	121.59	-803.77	5.60	1.53	231.14	-.13	-.51		.15	.15	.028
		3.0	-18.74	149.92	-899.84	4.94	1.57	231.14	-.13	-.57		.15	.15	.030
		4.6	-18.75	178.97	-984.04	4.29	1.61	231.14	-.13	-.63		.14	.14	.033
		6.1	-18.77	208.66	-1057.60	3.42	1.66	231.14	-.13	-.68		.13	.13	.035
603- 623	JL6- 1	0.0	-223.82	-266.16	324.04	-4.82	-4.84	-231.35	-1.57	-.26		.17	.17	.084
		1.5	-223.99	-349.58	409.22	-4.52	-4.30	-231.35	-1.57	-.34		.16	.16	.087
		3.0	-224.16	-423.35	489.00	-4.23	-3.78	-231.35	-1.57	-.41		.15	.15	.090
		4.6	-224.32	-487.65	563.54	-3.94	-3.27	-231.35	-1.57	-.47		.14	.14	.093
		6.1	-224.53	-543.54	633.39	-3.56	-2.58	-231.35	-1.57	-.52		.13	.13	.095
606- 626	JL6- 1	0.0	261.20	369.36	181.38	-.45	2.92	-.40	1.83	.26		.04	.04	.095
		1.5	261.35	417.68	186.37	-.10	2.40	-.40	1.83	.29		.03	.03	.097
		3.0	261.51	456.92	185.23	.23	1.88	-.40	1.83	.31		.03	.03	.098
		4.6	261.65	486.74	178.21	.54	1.39	-.40	1.83	.33		.02	.02	.098
		6.1	261.85	508.33	165.92	.98	.71	-.40	1.83	.34		.02	.02	.099
621- 651	JL6- 1	0.0	-18.77	203.68	-1057.44	3.67	1.60	232.45	-.13	-.68		.13	.13	.035
		1.5	-18.77	232.57	-1115.74	2.73	1.56	232.45	-.13	-.72		.12	.12	.036
		3.0	-18.78	260.67	-1157.20	1.62	1.52	232.45	-.13	-.75		.11	.11	.038
		4.6	-18.79	287.94	-1182.43	.95	1.47	232.45	-.13	-.76		.10	.10	.038
		6.1	-18.80	314.42	-1191.94	.10	1.43	232.45	-.13	-.77		.09	.09	.039
622- 703	20D- 1	0.0	25.13	-95.55	156.54	-.29	-.02	-8.55	.66	1.03		.04	.04	.074
		5.4	25.12	-61.32	140.90	.63	.45	-8.55	.66	.93		.06	.06	.070
		10.9	25.11	-36.48	75.46	1.48	.92	-8.55	.66	.47		.12	.12	.050
		16.3	25.10	38.65	-48.12	2.29	1.39	-8.55	.66	.35		.16	.16	.045
		21.8	25.08	144.54	-222.21	3.03	1.85	-8.55	.66	1.48		.21	.21	.093
623- 653	JL6- 1	0.0	-224.47	-545.80	630.01	-3.47	-3.11	-232.69	-1.57	-.52		.14	.14	.095
		1.5	-224.25	-596.70	689.33	-3.03	-2.47	-232.69	-1.57	-.57		.13	.13	.097
		3.0	-224.08	-636.08	740.70	-2.60	-1.85	-232.69	-1.57	-.61		.12	.12	.099
		4.6	-223.84	-664.36	784.36	-2.19	-1.25	-232.69	-1.57	-.65		.11	.11	.100
		6.1	-223.65	-681.87	820.58	-1.79	-.67	-232.69	-1.56	-.67		.10	.10	.101
624- 701	20D- 1	0.0	31.87	-51.55	-169.11	.54	-.32	12.64	.84	.96		.07	.07	.079
		5.5	31.88	-43.48	-171.62	-.46	-.04	12.64	.84	.99		.06	.06	.080
		11.0	31.89	-30.04	-110.10	-1.40	.24	12.64	.84	.65		.11	.11	[illegible]

	21.9	31.94	33.25	169.02	-3.10	.82	12.64	.84	1.07		.20	.20	.084

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /----	BENDING STRESS Y	Z ----KSI----	Y SHEAR STRESS	Z SHEAR STRESS ----/	COMB. UNITY CHECK
625- 706	200- 1	0.0	-48.41	109.88	6.57	-.21	.31	-10.22	-1.27	-.62		.05	.05	.090
		5.5	-48.40	108.42	19.00	-.16	-.36	-10.22	-1.27	-.62		.05	.05	.090
		11.0	-48.40	62.73	28.15	-.11	-1.03	-10.22	-1.27	-.38		.08	.08	.080
		16.4	-48.41	-25.64	34.02	-.06	-1.66	-10.22	-1.27	-.24		.12	.12	.074
		21.9	-48.41	-155.41	36.16	.00	-2.27	-10.22	-1.27	-.89		.15	.15	.102
626- 650	JL6- 1	0.0	261.79	507.68	165.49	.65	.48	-.13	1.83	.34		.01	.01	.099
		1.5	261.55	509.92	145.96	1.29	-.24	-.13	1.83	.33		.02	.02	.099
		3.0	261.31	499.19	118.62	1.71	-.94	-.13	1.83	.32		.03	.03	.098
		4.6	261.07	475.82	83.64	2.12	-1.62	-.13	1.83	.30		.04	.04	.097
		6.1	260.84	440.15	41.23	2.52	-2.28	-.13	1.82	.28		.05	.05	.096
651- 701	JL6- 1	0.0	-21.21	300.37	-1136.70	-9.68	-1.23	410.69	-.15	-.74		.27	.27	.038
		1.8	-21.20	274.56	-920.30	-10.64	-1.19	410.69	-.15	-.60		.28	.28	.032
		3.5	-21.19	249.74	-683.82	-11.57	-1.14	410.69	-.15	-.46		.29	.29	.026
		5.3	-21.19	225.91	-427.91	-12.46	-1.10	410.69	-.15	-.30		.30	.30	.020
		7.1	-21.18	202.98	-153.19	-13.34	-1.06	410.69	-.15	-.16		.32	.32	.014
653- 703	JL6- 1	0.0	-240.07	-696.98	859.11	4.74	3.01	-268.16	-1.68	-.70		.16	.16	.108
		1.8	-240.08	-626.13	753.54	5.18	3.83	-268.16	-1.68	-.62		.17	.17	.104
		3.5	-240.07	-536.05	638.71	5.60	4.63	-268.16	-1.68	-.52		.19	.19	.101
		5.3	-240.07	-429.38	514.98	6.01	5.39	-268.16	-1.68	-.42		.20	.20	.096
		7.1	-240.08	-306.81	382.77	6.40	6.12	-268.16	-1.68	-.31		.21	.21	.092
655- 706	JL6- 1	0.0	260.84	440.15	41.23	2.52	-2.40	-.11	1.82	.28		.05	.05	.096
		1.8	260.84	380.07	-17.71	3.01	-3.23	-.11	1.82	.24		.06	.06	.095
		3.5	260.84	302.76	-86.85	3.48	-4.02	-.11	1.82	.20		.07	.07	.093
		5.3	260.84	208.93	-165.84	3.94	-4.79	-.11	1.82	.17		.09	.09	.092
		7.1	260.84	99.01	-254.46	4.39	-5.54	-.11	1.82	.17		.10	.10	.092
701- 702	137- 1	0.0	20.63	24.80	27.77	-.40	-.18	-3.08	1.07	.66		.07	.07	.077
		4.7	20.63	14.62	38.39	.02	-.18	-3.08	1.07	.72		.05	.05	.080
		9.4	20.63	4.46	25.24	.44	-.18	-3.08	1.07	.45		.08	.08	.069
		14.1	20.63	-5.22	-11.66	.87	-.16	-3.08	1.07	.23		.12	.12	.059
		18.8	20.63	-13.36	-72.31	1.29	-.12	-3.08	1.07	1.30		.16	.16	.104
701- 704	137- 1	0.0	-3.36	-12.82	27.14	-.43	.09	-5.37	-.17	-.53		.09	.09	.034
		4.7	-3.34	-7.94	39.44	-.01	.08	-5.37	-.17	-.71		.06	.06	.041
		9.4	-3.31	-3.72	28.18	.41	.07	-5.37	-.17	-.50		.09	.09	.033
		14.1	-3.29	-.82	-6.62	.83	.04	-5.37	-.17	-.12		.13	.13	.016
		18.8	-3.26	.10	-64.96	1.25	-.01	-5.37	-.17	-1.15		.18	.18	.060
701- 801	JL7- 1	0.0	23.18	171.18	-189.64	4.95	-1.19	120.63	.33	.32		.22	.22	.029
		7.1	23.21	78.22	-475.63	1.84	-.99	120.63	.33	.61		.14	.14	.041
		14.2	23.25	1.94	-514.64	-.86	-.80	120.63	.33	.65		.11	.11	.043
		21.3	23.27	-58.87	-359.29	-3.20	-.63	120.63	.33	.44		.17	.17	.034
		28.4	23.30	-105.77	23.86	-5.28	-.47	120.63	.33	.14		.23	.23	.021

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
701- 806	200- 1	0.0	-44.75	-114.05	-237.23	-3.10	1.21	-11.49	-1.18	-1.47		.21	.21	.134
		12.5	-44.75	22.22	95.37	-1.35	.61	-11.49	-1.18	-.55		.11	.11	.095
		25.1	-44.74	69.08	181.24	.17	.03	-11.49	-1.18	-1.09		.04	.04	.117
		37.6	-44.71	38.06	55.96	1.45	-.43	-11.49	-1.18	-.38		.11	.11	.086
		50.2	-44.68	-59.32	-244.87	2.51	-.86	-11.49	-1.17	-1.41		.17	.17	.131
702- 703	137- 1	0.0	22.74	-12.67	-47.27	-1.08	-.02	2.33	1.18	.86		.13	.13	.091
		4.7	22.74	-12.35	1.56	-.66	.03	2.33	1.18	.22		.09	.09	.064
		9.4	22.74	-6.69	26.63	-.23	.10	2.33	1.18	.49		.05	.05	.076
		14.1	22.74	-1.10	27.94	.19	.17	2.33	1.18	.49		.05	.05	.075
		18.8	22.74	11.11	5.50	.61	.26	2.33	1.18	.22		.09	.09	.044
702- 704	107- 1	0.0	-.23	-2.30	3.52	.02	-.08	1.03	-.02	-.14		.03	.03	.007
		4.7	-.23	-4.65	2.44	.02	-.00	1.03	-.02	-.18		.02	.02	.009
		9.4	-.23	-3.03	1.37	.02	.06	1.03	-.02	-.11		.03	.03	.006
		14.1	-.23	1.44	.29	.02	.10	1.03	-.02	-.05		.03	.03	.003
		18.8	-.23	8.55	-.76	.02	.15	1.03	-.02	-.29		.04	.04	.013
702- 705	107- 1	0.0	-3.01	-2.99	-28.56	-.85	-.02	-.62	-.25	-.96		.15	.15	.055
		4.7	-3.02	-3.00	7.15	-.42	.02	-.62	-.25	-.26		.08	.08	.026
		9.4	-3.02	-1.48	18.32	.02	.03	-.62	-.25	-.61		.02	.02	.041
		14.1	-3.01	.53	5.28	.45	.04	-.62	-.25	-.18		.09	.09	.022
		18.8	-2.99	2.55	-31.65	.87	.04	-.62	-.25	-1.06		.16	.16	.059
703- 705	137- 1	0.0	-12.80	6.16	-52.66	-.42	-.28	-2.00	-.67	-.94		.07	.07	.084
		4.7	-12.80	-6.12	-29.29	-.42	-.16	-2.00	-.67	-.53		.06	.06	.067
		9.4	-12.80	-11.82	-5.90	-.42	-.05	-2.00	-.67	-.23		.06	.06	.054
		14.1	-12.80	-12.25	17.50	-.42	.03	-2.00	-.67	-.38		.06	.06	.060
		18.8	-12.80	-8.69	40.89	-.42	.09	-2.00	-.67	-.74		.06	.06	.075
703- 801	200- 1	0.0	-45.03	-61.57	293.66	3.41	.39	9.67	-1.18	-1.68		.21	.21	.143
		12.5	-44.98	-11.85	-82.05	1.02	.27	9.67	-1.18	-.46		.11	.11	.092
		25.1	-44.94	19.70	-202.56	.01	.15	9.67	-1.18	-1.14		.03	.03	.120
		37.6	-44.91	32.13	-95.95	-1.40	.02	9.67	-1.18	-.57		.10	.10	.096
		50.2	-44.89	24.59	209.53	-2.63	-.12	9.67	-1.18	-1.18		.17	.17	.122
703- 803	JL7- 1	0.0	-202.14	-250.18	373.29	-1.05	-3.95	86.02	-2.86	-.57		.17	.17	.163
		7.1	-202.11	-473.06	402.03	.33	-1.35	86.02	-2.86	-.79		.10	.10	.173
		14.2	-202.10	-491.55	323.39	1.48	.87	86.02	-2.86	-.75		.10	.10	.171
		21.3	-202.07	-333.16	153.77	2.48	2.81	86.02	-2.86	-.47		.16	.16	.159
		28.4	-202.08	-21.23	-93.96	3.32	4.47	86.02	-2.86	-.12		.21	.21	.145
704- 705	107- 1	0.0	3.20	2.44	-33.38	-.87	.03	.17	.27	1.12		.15	.15	.060
		4.7	3.20	3.00	3.51	-.44	-.01	.17	.27	.15		.08	.08	.019
		9.4	3.20	1.58	16.55	-.02	-.04	.17	.27	.56		.01	.01	.036
		14.1	3.20	-1.16	6.03	.40	-.06	.17	.27	.21		.07	.07	.021
		18.8	3.20	-4.56	-28.35	.82	-.06	.17	.27	.96		.14	.14	.053

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
801- 804	148- 1	0.0	-12.98	-6.76	52.09	-.19	-.01	-7.81	-.61	-.76		.07	.07	.076
		5.7	-12.99	-7.42	53.88	.14	-.01	-7.81	-.61	-.79		.07	.07	.077
		11.4	-12.99	-8.08	32.97	.47	-.01	-7.81	-.61	-.49		.10	.10	.044
		17.1	-13.00	-8.74	-10.65	.80	-.01	-7.81	-.61	-.20		.13	.13	.052
		22.8	-13.00	-9.39	-76.99	1.14	-.01	-7.81	-.61	-1.12		.16	.16	.091
801- 901	JL8- 1	0.0	-29.07	84.57	-17.96	3.67	-.72	-37.70	-.41	-.11		.13	.13	.025
		8.1	-29.04	21.79	-269.84	1.54	-.58	-37.70	-.41	-.34		.07	.07	.035
		16.2	-29.03	-30.91	-326.41	-.54	-.50	-37.70	-.41	-.42		.04	.04	.038
		24.3	-29.02	-75.17	-210.40	-2.01	-.41	-37.70	-.41	-.28		.08	.08	.032
		32.4	-29.00	-110.50	60.05	-3.52	-.32	-37.70	-.41	-.16		.12	.12	.027
801- 903	200- 1	0.0	47.49	142.36	-111.17	-1.72	-1.16	-12.18	1.25	1.01		.14	.14	.100
		14.9	47.55	-15.61	98.11	-.06	-.59	-12.18	1.25	.55		.08	.08	.081
		29.8	47.56	-69.15	136.24	.21	-.04	-12.18	1.25	.85		.05	.05	.094
		44.7	47.52	-31.74	30.02	.96	.45	-12.18	1.25	.24		.09	.09	.068
		59.6	47.49	85.10	-201.17	1.61	.84	-12.18	1.25	1.22		.13	.13	.109
802- 803	148- 1	0.0	3.11	-19.09	-38.35	-.71	-.02	5.06	.15	.62		.10	.10	.033
		5.7	3.11	-18.28	.25	-.42	.05	5.06	.15	.26		.08	.08	.018
		11.4	3.11	-12.61	19.32	-.14	.12	5.06	.15	.33		.05	.05	.021
		17.1	3.11	-1.09	18.93	.15	.22	5.06	.15	.27		.06	.06	.018
		22.8	3.11	17.24	-.94	.43	.32	5.06	.15	.25		.09	.09	.017
802- 804	108- 1	0.0	.33	-3.25	-1.65	-.00	-.07	1.87	.03	.12		.04	.04	.006
		5.7	.33	-5.95	-1.31	-.00	-.01	1.87	.03	.20		.03	.03	.010
		11.4	.33	-4.76	-.97	-.00	.05	1.87	.03	.16		.04	.04	.008
		17.1	.33	.34	-.64	-.00	.10	1.87	.03	.02		.05	.05	.002
		22.8	.33	9.35	-.30	-.00	.16	1.87	.03	.31		.06	.06	.014
802- 805	108- 1	0.0	-2.61	-3.18	-24.72	-.52	-.05	-1.48	-.22	-.83		.11	.11	.049
		5.7	-2.59	-4.88	1.92	-.26	-.00	-1.48	-.22	-.18		.07	.07	.021
		11.4	-2.58	-3.65	11.16	-.01	.03	-1.48	-.22	-.39		.03	.03	.030
		17.1	-2.56	-.47	3.00	.25	.06	-1.48	-.22	-.10		.07	.07	.018
		22.8	-2.55	3.69	-22.55	.50	.06	-1.48	-.21	-.76		.11	.11	.046
803- 805	148- 1	0.0	12.32	-3.61	-29.49	-.16	-.24	-.85	.58	.43		.03	.03	.045
		5.7	12.32	-16.25	-18.58	-.16	-.13	-.85	.58	.36		.03	.03	.042
		11.4	12.32	-22.08	-7.00	-.16	-.04	-.85	.58	.34		.02	.02	.041
		17.1	12.32	-22.07	3.26	-.16	.04	-.85	.58	.32		.02	.02	.040
		22.8	12.32	-17.18	14.17	-.16	.10	-.85	.58	.32		.02	.02	.040
803- 903	JL8- 1	0.0	-112.96	-75.92	-20.53	-1.25	-2.27	-44.41	-1.60	-.10		.10	.10	.083
		8.1	-112.99	-214.90	60.14	-.42	-.62	-44.41	-1.60	-.28		.05	.05	.091
		16.2	-112.98	-203.05	64.78	.51	.83	-44.41	-1.60	-.27		.05	.05	.090
		24.3	-112.95	-60.26	2.49	.94	2.07	-44.41	-1.60	-.08		.09	.09	.082
		32.4	-112.94	193.96	-116.04	1.48	3.12	-44.41	-1.60	-.29		.13	.13	.091

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
704- 706	137- 1	0.0	-5.71	2.15	-32.38	-.89	.11	4.57	-.30	-.57		.13	.13	.044
		4.7	-5.69	7.08	5.75	-.47	.06	4.57	-.30	-.16		.09	.09	.026
		9.4	-5.67	8.73	20.89	-.07	-.00	4.57	-.29	-.40		.05	.05	.036
		14.1	-5.66	6.41	13.59	.33	-.08	4.57	-.29	-.27		.08	.08	.031
		18.8	-5.66	-.52	-15.56	.71	-.17	4.57	-.29	-.27		.12	.12	.031
705- 706	137- 1	0.0	-17.35	-5.55	-19.11	-.21	.06	-.65	-.90	-.35		.03	.03	.075
		4.7	-17.35	-.62	-7.50	-.21	.11	-.65	-.90	-.13		.03	.03	.066
		9.4	-17.35	6.95	4.11	-.21	.16	-.65	-.90	-.14		.03	.03	.066
		14.1	-17.35	16.01	15.72	-.21	.19	-.65	-.90	-.41		.03	.03	.077
		18.8	-17.35	27.50	27.33	-.21	.19	-.65	-.90	-.66		.03	.03	.089
706- 803	200- 1	0.0	77.75	188.51	-65.90	-.21	-1.74	-.92	2.04	1.12		.09	.09	.142
		12.5	77.76	-15.42	-33.40	-.22	-.97	-.92	2.04	.21		.05	.05	.103
		25.1	77.78	-103.10	-.33	-.22	-.20	-.92	2.04	.58		.02	.02	.119
		37.6	77.79	-75.00	32.01	-.20	.57	-.92	2.04	.46		.03	.03	.114
		50.2	77.78	66.46	57.05	-.12	1.31	-.92	2.04	.49		.07	.07	.115
706- 806	JL7- 1	0.0	169.51	156.12	-206.21	-3.03	4.34	-94.41	2.68	.33		.22	.22	.138
		7.1	169.52	412.40	50.45	-2.23	1.69	-94.41	2.68	.53		.14	.14	.146
		14.2	169.50	455.28	179.98	-.64	-.64	-94.41	2.68	.62		.09	.09	.150
		21.3	169.52	311.34	197.67	.40	-2.70	-94.41	2.68	.47		.14	.14	.144
		28.4	169.52	1.57	115.44	1.51	-4.54	-94.41	2.68	.15		.20	.20	.130
710- 810	P2- 1	0.0	5.36	335.59	-1296.32	-1.22	-1.13	-24.26	.02	.56		.02	.02	.024
		7.1	5.36	239.40	-1192.48	-1.22	-1.13	-24.26	.02	.51		.02	.02	.022
		14.2	5.36	143.21	-1088.65	-1.22	-1.13	-24.26	.02	.46		.02	.02	.020
		21.3	5.36	47.01	-984.81	-1.22	-1.13	-24.26	.02	.41		.02	.02	.018
		28.4	5.36	-49.18	-880.98	-1.22	-1.13	-24.26	.02	.37		.02	.02	.016
711- 811	P2- 1	0.0	269.94	-1093.53	1190.86	2.65	.45	63.94	1.07	.67		.03	.03	.078
		7.1	269.94	-1055.44	965.48	2.65	.45	63.94	1.07	.60		.03	.03	.075
		14.2	269.94	-1017.45	740.09	2.65	.45	63.94	1.07	.52		.03	.03	.072
		21.3	269.94	-979.37	514.71	2.65	.45	63.94	1.07	.46		.03	.03	.069
		28.4	269.94	-941.32	289.32	2.65	.45	63.94	1.07	.41		.03	.03	.067
712- 812	P2- 1	0.0	-279.34	805.61	-43.35	-1.66	.51	85.24	-1.11	-.34		.03	.03	.069
		7.1	-279.34	848.69	97.82	-1.66	.51	85.24	-1.11	-.36		.03	.03	.070
		14.2	-279.34	891.77	238.60	-1.66	.51	85.24	-1.11	-.38		.03	.03	.071
		21.3	-279.34	934.85	379.57	-1.66	.51	85.24	-1.11	-.42		.03	.03	.072
		28.4	-279.34	977.93	520.55	-1.66	.51	85.24	-1.11	-.46		.03	.03	.074
801- 802	148- 1	0.0	1.19	39.11	54.29	-.13	-.25	-2.19	.06	.97		.04	.04	.043
		5.7	1.19	22.05	53.76	.15	-.24	-2.19	.06	.84		.04	.04	.038
		11.4	1.19	5.96	33.75	.44	-.22	-2.19	.06	.50		.06	.06	.023
		17.1	1.19	-8.17	-5.73	.72	-.19	-2.19	.06	.14		.09	.09	.009
		22.8	1.19	-19.59	-64.70	1.00	-.14	-2.19	.06	.98		.11	.11	.044

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LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y	Z ---KSI---	Y SHEAR STRESS	Z SHEAR STRESS -------/	COMB. UNITY CHECK
803- 906	200- 1	0.0	-65.74	-136.17	-78.70	-.26	.68	-.21	-2.25	-.88		.04	.04	.186
		14.9	-65.74	-22.08	-32.82	-.24	.55	-.21	-2.25	-.22		.03	.03	.160
		29.8	-65.75	46.26	4.74	-.18	.20	-.21	-2.25	-.26		.01	.01	.161
		44.7	-65.76	50.70	30.67	-.11	-.15	-.21	-2.25	-.33		.01	.01	.164
		59.6	-65.77	-9.07	44.93	-.05	-.51	-.21	-2.25	-.26		.03	.03	.161
804- 805	108- 1	0.0	2.37	4.68	-23.47	-.56	-.02	.06	.20	.80		.09	.09	.043
		5.7	2.37	3.03	4.78	-.27	-.02	.06	.20	.19		.05	.05	.017
		11.4	2.37	1.37	13.53	.01	-.02	.06	.20	.45		.01	.01	.028
		17.1	2.37	-.28	2.79	.30	-.02	.06	.20	.09		.05	.05	.013
		22.8	2.37	-1.94	-27.45	.58	-.02	.06	.20	.92		.10	.10	.046
804- 806	148- 1	0.0	-14.50	-6.74	-53.83	-.92	.17	5.22	-.68	-.79		.13	.13	.052
		5.7	-14.51	3.03	-1.96	-.60	.17	5.22	-.68	-.05		.10	.10	.051
		11.4	-14.53	13.84	28.03	-.28	.15	5.22	-.69	-.45		.07	.07	.068
		17.1	-14.55	22.69	34.99	.02	.11	5.22	-.69	-.63		.05	.05	.075
		22.8	-14.58	28.62	25.75	.31	.06	5.22	-.69	-.56		.07	.07	.073
805- 806	148- 1	0.0	8.93	-15.60	-35.83	-.35	.14	-3.12	.42	.57		.06	.06	.043
		5.7	8.93	-3.99	-11.71	-.35	.20	-3.12	.42	.18		.06	.06	.027
		11.4	8.93	11.51	12.40	-.35	.26	-3.12	.42	.24		.06	.06	.030
		17.1	8.93	30.58	36.51	-.35	.30	-3.12	.42	.69		.07	.07	.048
		22.8	8.93	51.61	60.62	-.35	.31	-3.12	.42	1.15		.07	.07	.068
806- 901	200- 1	0.0	50.07	141.23	187.66	2.05	-.86	9.55	1.32	1.31		.14	.14	.116
		14.9	50.05	17.69	-78.90	.94	-.52	9.55	1.32	.45		.08	.08	.030
		29.8	50.06	-42.35	-156.10	-.06	-.15	9.55	1.32	.91		.04	.04	.099
		44.7	50.06	-38.60	-67.31	-.92	.19	9.55	1.32	.43		.08	.08	.079
		59.6	50.05	27.01	170.30	-1.74	.54	9.55	1.32	.96		.12	.12	.102
806- 906	JL8- 1	0.0	137.04	133.55	-3.35	-2.27	2.39	153.03	1.94	.17		.19	.19	.097
		8.1	137.02	272.60	159.98	-1.11	.51	153.03	1.94	.40		.13	.13	.107
		16.2	136.99	238.26	216.75	-.08	-1.20	153.03	1.94	.41		.13	.13	.107
		24.3	136.97	44.07	178.80	.84	-2.77	153.03	1.94	.23		.18	.18	.100
		32.4	136.98	-297.94	55.77	1.68	-4.23	153.03	1.94	.39		.23	.23	.106
810- 910	P2- 1	0.0	5.36	-48.20	-881.01	-2.46	-.64	-24.93	.02	.37		.03	.03	.016
		8.1	5.36	-110.35	-641.29	-2.46	-.64	-24.93	.02	.27		.03	.03	.012
		16.2	5.36	-172.50	-401.56	-2.46	-.64	-24.93	.02	.18		.03	.03	.009
		24.3	5.36	-234.65	-161.63	-2.46	-.64	-24.93	.02	.12		.03	.03	.006
		32.4	5.36	-296.80	77.89	-2.46	-.64	-24.93	.02	.13		.03	.03	.006
811- 911	P2- 1	0.0	269.94	-940.99	290.31	1.92	4.21	64.33	1.07	.41		.05	.05	.067
		8.1	269.94	-531.54	103.06	1.92	4.21	64.33	1.07	.23		.05	.05	.059
		16.2	269.94	-122.10	-84.18	1.92	4.21	64.33	1.07	.06		.05	.05	.052
		24.3	269.94	287.35	-271.43	1.92	4.21	64.33	1.07	.16		.05	.05	.057
		32.4	269.94	696.80	-458.68	1.92	4.21	64.33	1.07	.35		.05	.05	.064

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y	Z --------KSI-------	Y SHEAR STRESS	Z SHEAR STRESS -------/	COMB. UNITY CHECK
812- 912	P2- 1	0.0	-279.33	977.93	520.51	.15	-3.69	85.46	-1.11	-.46		.05	.05	.075
		8.1	-279.33	619.00	506.33	.15	-3.69	85.46	-1.11	-.33		.05	.05	.069
		16.2	-279.33	260.08	492.15	.15	-3.69	85.46	-1.11	-.23		.05	.05	.065
		24.3	-279.33	-98.85	477.97	.15	-3.69	85.46	-1.11	-.20		.05	.05	.064
		32.4	-279.33	-457.75	463.78	.15	-3.69	85.46	-1.11	-.27		.05	.05	.067
901- 902	169- 1	0.0	-9.16	46.55	62.21	-.14	-.24	-4.90	-.38	-.85		.05	.05	.064
		6.9	-9.16	26.58	62.58	.13	-.23	-4.90	-.38	-.74		.05	.05	.059
		13.7	-9.16	8.22	40.59	.41	-.21	-4.90	-.38	-.45		.06	.06	.047
		20.6	-9.16	-7.32	-4.06	.68	-.17	-4.90	-.38	-.09		.08	.08	.032
		27.4	-9.16	-18.03	-71.26	.95	-.11	-4.90	-.38	-.81		.11	.11	.062
901- 904	169- 1	0.0	-23.11	-13.39	65.48	-.05	.02	-7.14	-.95	-.73		.04	.04	.101
		6.9	-23.12	-12.12	59.75	.19	.02	-7.14	-.95	-.67		.05	.05	.099
		13.7	-23.14	-10.85	33.74	.44	.02	-7.14	-.95	-.39		.08	.08	.087
		20.6	-23.15	-9.59	-12.55	.69	.02	-7.14	-.95	-.17		.10	.10	.076
		27.4	-23.17	-8.32	-79.13	.93	.02	-7.14	-.95	-.87		.12	.12	.107
901-1001	JL9- 1	0.0	.42	-81.37	59.91	2.54	.09	-79.52	.01	.12		.12	.12	.035
		8.1	.44	-66.33	-139.20	1.16	.17	-79.52	.01	.20		.08	.08	.039
		16.2	.45	-47.78	-190.18	-.10	.24	-79.52	.01	.25		.06	.06	.011
		24.3	.46	-21.05	-121.25	-1.31	.28	-79.52	.01	.16		.09	.09	.007
		32.4	.46	6.57	62.37	-2.46	.29	-79.52	.01	.08		.12	.12	.004
901-1002	180- 1	0.0	37.59	45.27	-19.15	-.67	-.48	-8.00	1.37	.42		.09	.09	.091
		10.6	37.60	3.10	40.45	-.27	-.21	-8.00	1.37	.35		.06	.06	.076
		21.1	37.61	-10.97	48.98	.12	-.02	-8.00	1.37	.43		.04	.04	.081
		31.7	37.62	-2.09	12.21	.45	.15	-8.00	1.37	.11		.07	.07	.068
		42.2	37.63	27.39	-63.72	.75	.32	-8.00	1.37	.59		.09	.09	.088
901-1004	180- 1	0.0	-40.90	-29.83	-38.38	-.79	.35	-5.82	-1.49	-.42		.09	.09	.106
		10.6	-40.92	2.57	35.43	-.37	.16	-5.82	-1.49	-.30		.05	.05	.101
		21.1	-40.95	11.16	56.12	.05	-.03	-5.82	-1.49	-.49		.03	.03	.109
		31.7	-40.97	-4.07	23.75	.46	-.21	-5.82	-1.49	-.21		.06	.06	.097
		42.2	-40.97	-41.68	-56.69	.79	-.38	-5.82	-1.49	-.60		.09	.09	.114
902- 903	169- 1	0.0	-7.53	-16.12	-43.45	-.67	-.07	3.39	-.31	-.51		.07	.07	.044
		6.9	-7.53	-16.93	.81	-.41	.00	3.39	-.31	-.21		.05	.05	.032
		13.7	-7.53	-16.11	23.93	-.16	.07	3.39	-.31	-.32		.03	.03	.036
		20.6	-7.53	-7.64	27.31	.07	.14	3.39	-.31	-.31		.03	.03	.036
		27.4	-7.53	6.47	12.37	.29	.21	3.39	-.31	-.15		.05	.05	.029
902- 904	109- 1	0.0	.19	-2.28	-2.44	-.01	-.06	1.87	.02	.11		.04	.04	.005
		6.9	.19	-4.50	-1.81	-.01	.00	1.87	.02	.16		.03	.03	.008
		13.7	.19	-2.49	-1.17	-.01	.04	1.87	.02	.09		.04	.04	.005
		20.6	.19	2.33	-.54	-.01	.07	1.87	.02	.08		.04	.04	.004
		27.4	.19	6.55	.10	-.01	.08	1.87	.02	.29		.04	.04	.013

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LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	Z ------KSI------	Y SHEAR STRESS	Z SHEAR STRESS ------/	COMB. UNITY CHECK
902- 905	109- 1	0.0	-2.31	-5.68	-25.36	-.43	.02	-.93	-.19	-.87		.09	.09	.050
		6.9	-2.27	-3.97	1.41	-.22	.02	-.93	-.19	-.14		.05	.05	.019
		13.7	-2.22	-2.26	10.72	-.01	.02	-.93	-.19	-.37		.02	.02	.029
		20.6	-2.18	-.56	2.56	.21	.02	-.93	-.18	-.09		.05	.05	.017
		27.4	-2.14	1.15	-23.05	.42	.02	-.93	-.18	-.77		.09	.09	.045
903- 905	169- 1	0.0	30.40	-10.50	-39.62	-.15	-.15	-1.83	1.25	.45		.03	.03	.077
		6.9	30.40	-19.73	-27.31	-.15	-.08	-1.83	1.25	.37		.02	.02	.073
		13.7	30.40	-23.32	-14.99	-.15	-.01	-1.83	1.25	.30		.02	.02	.071
		20.6	30.40	-21.27	-2.68	-.15	.06	-1.83	1.25	.23		.02	.02	.068
		27.4	30.40	-13.58	9.64	-.15	.13	-1.83	1.25	.18		.03	.03	.065
903-1002	180- 1	0.0	-38.30	-26.00	65.63	.89	.19	4.21	-1.39	-.60		.08	.08	.108
		10.6	-38.31	-5.95	-20.21	.46	.12	4.21	-1.39	-.18		.05	.05	.090
		21.1	-38.27	1.73	-51.53	.03	.00	4.21	-1.39	-.44		.02	.02	.101
		31.7	-38.24	-5.45	-28.36	-.39	-.12	4.21	-1.39	-.25		.05	.05	.093
		42.2	-38.20	-27.79	45.57	-.76	-.24	4.21	-1.39	-.46		.08	.08	.101
903-1003	JL9- 1	0.0	-8.20	189.94	-144.17	-1.15	-1.84	68.84	-.12	-.30		.10	.10	.018
		8.1	-8.22	55.30	-56.53	-.68	-.94	68.84	-.12	-.10		.08	.08	.010
		16.2	-8.24	2.49	-9.38	-.29	-.16	68.84	-.12	-.01		.05	.05	.006
		24.3	-8.22	21.75	1.40	.07	.53	68.84	-.12	-.03		.06	.06	.007
		32.4	-8.21	101.47	-21.17	.39	1.08	68.84	-.12	-.13		.08	.08	.011
903-1005	180- 1	0.0	-68.70	-71.69	-43.36	-.19	.55	8.21	-2.50	-.72		.08	.08	.178
		10.6	-68.68	-14.80	-22.08	-.14	.35	8.21	-2.50	-.23		.06	.06	.158
		21.1	-68.65	13.58	-7.23	-.10	.09	8.21	-2.50	-.13		.04	.04	.153
		31.7	-68.61	6.51	3.73	-.08	-.21	8.21	-2.50	-.06		.05	.05	.150
		42.2	-68.60	-40.33	13.39	-.07	-.53	8.21	-2.50	-.36		.07	.07	.163
904- 905	109- 1	0.0	1.98	4.92	-19.86	-.40	-.02	-.67	.17	.68		.08	.08	.037
		6.9	1.98	3.25	4.29	-.19	-.02	-.67	.17	.18		.04	.04	.015
		13.7	1.98	1.58	11.52	.01	-.02	-.67	.17	.39		.02	.02	.024
		20.6	1.98	-.09	1.84	.22	-.02	-.67	.17	.06		.05	.05	.010
		27.4	1.98	-1.76	-24.76	.43	-.02	-.67	.17	.83		.08	.08	.043
904- 906	169- 1	0.0	-24.42	-7.54	-59.17	-.76	.11	5.81	-1.00	-.65		.09	.09	.102
		6.9	-24.43	1.67	-7.00	-.51	.11	5.81	-1.00	-.08		.07	.07	.078
		13.7	-24.45	11.28	24.88	-.26	.11	5.81	-1.00	-.30		.06	.06	.087
		20.6	-24.47	20.69	36.47	-.02	.11	5.81	-1.00	-.46		.04	.04	.094
		27.4	-24.48	30.10	27.76	.23	.11	5.81	-1.01	-.45		.05	.05	.093
905- 906	169- 1	0.0	27.61	-13.51	-38.17	-.29	.13	-1.44	1.13	.44		.03	.03	.071
		6.9	27.61	-.39	-13.97	-.29	.19	-1.44	1.13	.15		.04	.04	.059
		13.7	27.61	16.97	10.23	-.29	.23	-1.44	1.13	.22		.04	.04	.062
		20.6	27.61	37.14	34.43	-.29	.26	-1.44	1.13	.55		.04	.04	.076
		27.4	27.61	58.72	58.63	-.29	.27	-1.44	1.13	.91		.04	.04	.091

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
904-1004	180- 1	0.0	41.32	42.53	55.65	.89	-.35	.09	1.50	.60		.07	.07	.095
		10.6	41.32	9.37	-25.75	.41	-.18	.09	1.50	.23		.03	.03	.079
		21.1	41.30	-5.44	-49.36	-.02	-.05	.09	1.50	.42		.00	.00	.087
		31.7	41.30	-1.49	-22.43	-.39	.11	.09	1.50	.19		.03	.03	.078
		42.2	41.31	23.90	49.95	-.75	.29	.09	1.50	.47		.06	.06	.089
906-1005	180- 1	0.0	68.87	52.57	-38.53	-.16	-.59	3.34	2.51	.56		.06	.06	.139
		10.6	68.86	-2.51	-20.41	-.12	-.28	3.34	2.51	.18		.04	.04	.125
		21.1	68.86	-17.75	-6.96	-.09	.04	3.34	2.50	.16		.02	.02	.123
		31.7	68.85	6.82	1.81	-.05	.35	3.34	2.50	.06		.04	.04	.118
		42.2	68.84	71.20	5.91	-.01	.67	3.34	2.50	.61		.06	.06	.142
906-1006	JL9- 1	0.0	7.81	-117.55	127.66	-1.13	2.57	47.58	.11	.22		.11	.11	.014
		8.1	7.81	65.82	198.44	-.34	1.21	47.58	.11	.27		.07	.07	.016
		16.2	7.79	121.37	194.23	.41	-.06	47.58	.11	.29		.04	.04	.017
		24.3	7.75	56.77	118.98	1.12	-1.26	47.58	.11	.17		.08	.08	.012
		32.4	7.72	-123.35	-23.37	1.79	-2.43	47.58	.11	.16		.12	.12	.012
1010- 910	P3- 1	0.0	5.35	262.24	2131.03	5.67	-1.44	-24.90	.02	.89		.05	.05	.039
		8.1	5.35	122.50	1578.73	5.67	-1.44	-24.90	.02	.66		.05	.05	.029
		16.2	5.35	-17.25	1026.43	5.67	-1.44	-24.90	.02	.43		.05	.05	.019
		24.3	5.35	-156.99	474.14	5.67	-1.44	-24.90	.02	.21		.05	.05	.010
		32.4	5.35	-296.73	-78.16	5.67	-1.44	-24.90	.02	.13		.05	.05	.006
1011- 911	P3- 1	0.0	269.95	-2058.32	-1159.91	-4.16	7.08	64.56	1.07	.98		.08	.08	.091
		8.1	269.95	-1369.44	-755.43	-4.16	7.08	64.56	1.07	.65		.08	.08	.077
		16.2	269.95	-680.56	-350.95	-4.16	7.08	64.56	1.07	.32		.08	.08	.063
		24.3	269.95	6.33	53.53	-4.16	7.08	64.56	1.07	.02		.08	.08	.051
		32.4	269.95	697.21	458.02	-4.16	7.08	64.56	1.07	.35		.08	.08	.064
1012- 912	P3- 1	0.0	-279.35	1866.14	-473.45	-.02	-5.97	85.46	-1.11	-.80		.07	.07	.089
		8.1	-279.35	1285.16	-471.03	-.02	-5.97	85.46	-1.11	-.57		.07	.07	.079
		15.2	-279.35	704.18	-468.61	-.02	-5.97	85.46	-1.11	-.35		.07	.07	.070
		24.3	-279.35	123.20	-466.20	-.02	-5.97	85.46	-1.11	-.20		.07	.07	.064
		32.4	-279.35	-457.78	-463.78	-.02	-5.97	85.46	-1.11	-.27		.07	.07	.067
1001-1002	200- 1	0.0	-51.16	66.77	46.93	-.27	-.28	2.48	-1.34	-.46		.03	.03	.114
		8.0	-51.16	40.27	60.86	-.02	-.28	2.48	-1.34	-.41		.02	.02	.112
		16.0	-51.16	13.76	51.69	.22	-.28	2.48	-1.34	-.30		.03	.03	.107
		24.0	-51.16	-12.74	19.43	.46	-.28	2.48	-1.34	-.13		.03	.03	.100
		32.0	-51.16	-39.25	-35.93	.70	-.28	2.48	-1.34	-.30		.05	.05	.107
1001-1004	200- 1	0.0	48.34	-68.37	41.77	-.35	.24	12.30	1.27	.45		.06	.06	.078
		8.0	48.33	-45.62	61.51	-.06	.24	12.30	1.27	.43		.05	.05	.077
		16.0	48.31	-22.87	53.54	.23	.24	12.30	1.27	.33		.05	.05	.072
		24.0	48.29	-.12	17.86	.52	.24	12.30	1.27	.10		.06	.06	.063
		32.0	48.27	22.63	-45.52	.80	.24	12.30	1.27	.28		.08	.08	.071

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
1002-1003	200- 1	0.0	.61	13.80	-22.62	-.55	-.14	-19.56	.02	.15		.08	.08	.007
		8.0	.61	.61	19.12	-.31	-.14	-19.56	.02	.11		.07	.07	.005
		16.0	.61	-12.57	37.77	-.07	-.14	-19.56	.02	.22		.06	.06	.010
		24.0	.61	-25.76	33.32	.17	-.14	-19.56	.02	.24		.07	.07	.011
		32.0	.61	-38.94	5.70	.41	-.14	-19.56	.02	.22		.08	.08	.010
1002-1004	140- 1	0.0	.12	-40.75	-.54	-.00	.22	6.84	.01	.77		.09	.09	.033
		8.0	.12	-19.74	-.40	-.00	.22	6.84	.01	.37		.09	.09	.016
		16.0	.12	1.27	-.26	-.00	.22	6.84	.01	.02		.09	.09	.001
		24.0	.12	22.28	-.11	-.00	.22	6.84	.01	.42		.09	.09	.018
		32.0	.12	43.29	.03	-.00	.22	6.84	.01	.81		.09	.09	.035
1002-1005	140- 1	0.0	-3.47	-32.68	-21.74	-.35	.13	-2.53	-.22	-.74		.07	.07	.044
		8.0	-3.46	-20.20	3.43	-.17	.13	-2.53	-.22	-.38		.05	.05	.029
		16.0	-3.45	-7.72	11.42	.01	.13	-2.53	-.21	-.26		.04	.04	.023
		24.0	-3.44	4.76	2.22	.19	.13	-2.53	-.21	-.10		.05	.05	.017
		32.0	-3.43	17.25	-24.17	.36	.13	-2.53	-.21	-.56		.07	.07	.036
1003-1005	200- 1	0.0	52.55	-96.52	-65.61	-.22	.41	1.08	1.38	.65		.03	.03	.091
		8.0	52.55	-56.63	-44.09	-.22	.41	1.08	1.38	.40		.03	.03	.081
		16.0	52.55	-16.74	-22.57	-.22	.41	1.08	1.38	.16		.03	.03	.071
		24.0	52.55	23.15	-1.05	-.22	.41	1.08	1.38	.13		.03	.03	.069
		32.0	52.55	63.05	20.47	-.22	.41	1.08	1.38	.37		.03	.03	.080
1004-1005	140- 1	0.0	3.46	24.49	-18.29	-.31	-.09	-4.07	.22	.57		.08	.08	.034
		8.0	3.46	15.70	3.60	-.15	-.09	-4.07	.22	.30		.06	.06	.023
		16.0	3.46	6.91	10.48	.01	-.09	-4.07	.22	.24		.05	.05	.020
		24.0	3.46	-1.87	1.77	.17	-.09	-4.07	.22	.05		.06	.06	.012
		32.0	3.46	-10.65	-22.35	.33	-.09	-4.07	.22	.46		.08	.08	.030
1004-1006	200- 1	0.0	-7.59	-34.77	-27.27	-.63	.23	-9.55	-.20	-.25		.06	.06	.024
		8.0	-7.61	-12.71	19.11	-.34	.23	-9.55	-.20	-.13		.05	.05	.019
		16.0	-7.62	9.36	37.78	-.05	.23	-9.55	-.20	-.22		.04	.04	.023
		24.0	-7.64	31.42	28.75	.24	.23	-9.55	-.20	-.24		.04	.04	.024
		32.0	-7.66	53.49	-7.99	.53	.23	-9.55	-.20	-.30		.06	.06	.027
1005-1006	200- 1	0.0	-41.63	-37.58	-22.21	-.21	.36	1.95	-1.09	-.24		.03	.03	.087
		8.0	-41.63	-2.76	-1.96	-.21	.36	1.95	-1.09	-.02		.03	.03	.078
		16.0	-41.63	32.05	18.28	-.21	.36	1.95	-1.09	-.21		.03	.03	.086
		24.0	-41.63	66.86	38.53	-.21	.36	1.95	-1.09	-.43		.03	.03	.095
		32.0	-41.63	101.67	54.78	-.21	.36	1.95	-1.09	-.66		.03	.03	.105

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /----	BENDING STRESS Y	BENDING STRESS Z ----KSI----	Y SHEAR STRESS	Z SHEAR STRESS ----/	COMB. UNITY CHECK
101- 102	W18- 1	0.0	.01	-.08	-.58	-.00	.00	.00	.00	-.00	-.05	.00	.00	.003
		3.6	.01	-.05	-.37	-.00	.00	.00	.00	-.00	-.03	.00	.00	.002
		7.3	.01	-.02	-.17	-.00	.00	.00	.00	-.00	-.02	.00	.00	.001
		10.9	.01	.00	.04	-.00	.00	.00	.00	.00	.00	.00	.00	.000
		14.5	.01	.05	.24	-.00	.00	.00	.00	.00	.02	.00	.00	.001
101- 104	W18- 1	0.0	.00	-.06	-.59	-.00	.00	-.00	.00	-.00	-.05	.00	.00	.003
		3.6	.00	-.04	-.37	-.00	.00	-.00	.00	-.00	-.03	.00	.00	.002
		7.2	.00	-.03	-.16	-.00	.00	-.00	.00	-.00	-.02	.00	.00	.001
		10.9	.00	-.01	.05	-.00	.00	-.00	.00	-.00	.00	.00	.00	.000
		14.5	.00	.00	.27	-.00	.00	-.00	.00	.00	.02	.00	.00	.001
101- 201	DKL- 1	0.0	.00	.05	-.11	-.01	-.01	-1.17	.00	.00		.00	.00	.000
		3.8	.00	-.43	.32	-.01	-.01	-1.17	.00	.00		.00	.00	.000
		7.5	.00	-.90	.74	-.01	-.01	-1.17	.00	.00		.00	.00	.000
		11.3	.00	-1.38	1.16	-.01	-.01	-1.17	.00	.00		.00	.00	.000
		15.0	.00	-1.86	1.59	-.01	-.01	-1.17	.00	.00		.00	.00	.000
102- 103	W18- 1	0.0	.01	.03	.22	.00	.00	-.00	.00	.00	.02	.00	.00	.001
		3.6	.01	.05	.07	.00	.00	-.00	.00	.00	.01	.00	.00	.000
		7.3	.01	.08	-.07	.00	.00	-.00	.00	.00	-.01	.00	.00	.000
		10.9	.01	.11	-.21	.00	.00	-.00	.00	.00	-.02	.00	.00	.001
		14.5	.01	.13	-.35	.00	.00	-.00	.00	.00	-.03	.00	.00	.002
102- 104	W08- 1	0.0	-.00	-.00	.03	.00	-.00	.00	-.00	-.00	.01	.00	.00	.000
		3.6	-.00	-.00	.02	.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		7.2	-.00	-.00	.00	.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		10.9	-.00	-.00	-.01	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
		14.5	-.00	-.01	-.03	.00	-.00	.00	-.00	-.00	-.01	.00	.00	.000
102- 105	W08- 1	0.0	.01	.00	-.01	-.00	.00	-.00	.00	.00	-.00	.00	.00	.000
		3.6	.01	.00	.01	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		7.2	.01	.00	.02	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		10.9	.01	.00	.04	-.00	.00	-.00	.00	.00	.01	.00	.00	.000
		14.5	.01	.00	.05	-.00	.00	-.00	.00	.00	.01	.00	.00	.000
103- 105	W18- 1	0.0	-.01	.16	.25	.00	-.00	.00	-.00	.00	.02	.00	.00	.001
		3.6	-.01	.12	.18	.00	-.00	.00	-.00	.00	.02	.00	.00	.001
		7.2	-.01	.07	.11	.00	-.00	.00	-.00	.00	.01	.00	.00	.001
		10.9	-.01	.03	.05	.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		14.5	-.01	-.02	-.02	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
103- 203	DKL- 1	0.0	-.00	-.14	-.22	.00	.00	.60	-.00	-.00		.00	.00	.000
		3.8	-.00	-.07	-.28	.00	.00	.60	-.00	-.00		.00	.00	.000
		7.5	-.00	.01	-.35	.00	.00	.60	-.00	-.00		.00	.00	.000
		11.3	-.00	.08	-.41	.00	.00	.60	-.00	-.00		.00	.00	.000
		15.0	-.00	.15	-.48	.00	.00	.60	-.00	-.00		.00	.00	.000

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE FY KIPS	----/ FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y -------	Z -KSI-------	Y SHEAR STRESS -------	Z SHEAR STRESS -------/	COMB. UNITY CHECK
104- 105	W08- 1	0.0	-.01	.01	-.02	-.00	-.00	.00	-.00	.00	-.00	.00	.00	.000
		3.6	-.01	.00	.00	-.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		7.3	-.01	.00	.02	-.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		10.9	-.01	-.00	.04	-.00	-.00	.00	-.00	-.00	.01	.00	.00	.000
		14.5	-.01	-.00	.06	-.00	-.00	.00	-.00	-.00	.01	.00	.00	.001
104- 106	W16- 1	0.0	.01	-.00	.25	.00	.00	-.00	.00	-.00	.02	.00	.00	.001
		3.6	.01	.01	.08	.00	.00	-.00	.00	.00	.01	.00	.00	.000
		7.3	.01	.03	-.10	.00	.00	-.00	.00	.00	-.01	.00	.00	.000
		10.9	.01	.05	-.28	.00	.00	-.00	.00	.00	-.03	.00	.00	.001
		14.5	.01	.06	-.46	.00	.00	-.00	.00	.00	-.04	.00	.00	.002
105- 106	W16- 1	0.0	.00	-.01	.08	.00	-.00	-.00	.00	-.00	.01	.00	.00	.000
		3.6	.00	-.06	-.03	.00	-.00	-.00	.00	-.00	-.00	.00	.00	.000
		7.3	.00	-.10	-.14	.00	-.00	-.00	.00	-.00	-.01	.00	.00	.001
		10.9	.00	-.15	-.26	.00	-.00	-.00	.00	-.00	-.02	.00	.00	.001
		14.5	.00	-.20	-.37	.00	-.00	-.00	.00	-.00	-.03	.00	.00	.002
106- 206	DKL- 1	0.0	.01	-.22	-.28	-.00	-.00	1.38	.00	.00		.00	.00	.000
		3.8	.01	-.33	-.19	-.00	-.00	1.38	.00	.00		.00	.00	.000
		7.5	.01	-.45	-.11	-.00	-.00	1.38	.00	.00		.00	.00	.000
		11.3	.01	-.56	-.02	-.00	-.00	1.38	.00	.00		.00	.00	.000
		15.0	.01	-.67	.06	-.00	-.00	1.38	.00	.00		.00	.00	.000
201- 202	W16- 1	0.0	-.15	.02	-.61	-.01	.00	.00	-.01	.00	-.06	.00	.00	.003
		3.6	-.15	.03	-.39	-.01	.00	.00	-.01	.00	-.04	.00	.00	.002
		7.3	-.15	.05	-.17	-.01	.00	.00	-.01	.00	-.02	.00	.00	.001
		10.9	-.15	.06	.04	-.01	.00	.00	-.01	.00	.00	.00	.00	.001
		14.5	-.15	.08	.26	-.01	.00	.00	-.01	.00	.02	.00	.00	.002
201- 204	W16- 1	0.0	-.04	.17	-.63	-.01	-.00	-.00	-.00	.00	-.06	.00	.00	.003
		3.6	-.04	.14	-.40	-.01	-.00	-.00	-.00	.00	-.04	.00	.00	.002
		7.2	-.04	.10	-.17	-.01	-.00	-.00	-.00	.00	-.02	.00	.00	.001
		10.9	-.04	.07	.06	-.01	-.00	-.00	-.00	.00	.01	.00	.00	.000
		14.5	-.04	.04	.29	-.01	-.00	-.00	-.00	.00	.03	.00	.00	.001
201- 301	DKL- 1	0.0	-.04	-1.76	1.73	.12	.03	-5.39	-.00	-.00		.01	.01	.000
		3.8	-.04	-.62	-3.73	.12	.03	-5.39	-.00	-.01		.01	.01	.000
		7.5	-.04	.52	-9.19	.12	.03	-5.39	-.00	-.01		.01	.01	.001
		11.3	-.04	1.66	-14.65	.12	.03	-5.39	-.00	-.02		.01	.01	.001
		15.0	-.04	2.79	-20.11	.12	.03	-5.39	-.00	-.03		.01	.01	.001
201- 303	120- 1	0.0	.06	.28	-1.52	-.00	-.00	.27	.00	.03		.00	.00	.001
		8.2	.06	.09	-1.25	-.00	-.00	.27	.00	.02		.00	.00	.001
		16.3	.06	-.11	-.99	-.00	-.00	.27	.00	.02		.00	.00	.001
		24.5	.06	-.31	-.72	-.00	-.00	.27	.00	.01		.00	.00	.001
		32.6	.06	-.51	-.45	-.00	-.00	.27	.00	.01		.00	.00	.001

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y	Z ---KSI---	Y SHEAR STRESS	Z SHEAR STRESS -------/	COMB. UNITY CHECK
202- 203	W16- 1	0.0	-.16	.07	.23	.00	.00	-.00	-.01	.00	.02	.00	.00	.002
		3.6	-.16	.09	.08	.00	.00	-.00	-.01	.00	.01	.00	.00	.001
		7.3	-.16	.10	-.07	.00	.00	-.00	-.01	.00	-.01	.00	.00	.001
		10.9	-.16	.12	-.22	.00	.00	-.00	-.01	.00	-.02	.00	.00	.002
		14.5	-.16	.13	-.37	.00	.00	-.00	-.01	.00	-.03	.00	.00	.002
202- 204	W08- 1	0.0	-.00	-.00	.04	.00	-.00	-.00	-.00	-.00	.01	.00	.00	.000
		3.6	-.00	-.00	.02	.00	-.00	-.00	-.00	-.00	.00	.00	.00	.000
		7.2	-.00	-.00	.00	.00	-.00	-.00	-.00	-.00	.00	.00	.00	.000
		10.9	-.00	-.00	-.02	.00	-.00	-.00	-.00	-.00	-.00	.00	.00	.000
		14.5	-.00	-.00	-.03	.00	-.00	-.00	-.00	-.00	-.01	.00	.00	.000
202- 205	W08- 1	0.0	.01	.00	-.01	-.00	-.00	-.00	.00	.00	-.00	.00	.00	.000
		3.6	.01	.00	.01	-.00	-.00	-.00	.00	.00	.00	.00	.00	.000
		7.2	.01	.00	.02	-.00	-.00	-.00	.00	.00	.00	.00	.00	.000
		10.9	.01	.00	.04	-.00	-.00	-.00	.00	.00	.01	.00	.00	.000
		14.5	.01	.00	.05	-.00	-.00	-.00	.00	.00	.01	.00	.00	.001
203- 205	W18- 1	0.0	.07	.25	.27	.00	-.00	.00	.00	.00	.03	.00	.00	.001
		3.6	.07	.17	.20	.00	-.00	.00	.00	.00	.02	.00	.00	.001
		7.2	.07	.10	.12	.00	-.00	.00	.00	.00	.01	.00	.00	.001
		10.9	.07	.04	.04	.00	-.00	.00	.00	.00	.00	.00	.00	.000
		14.5	.07	-.03	-.04	.00	-.00	.00	.00	-.00	-.00	.00	.00	.000
203- 303	DKL- 1	0.0	-.03	.56	-1.61	-.11	-.11	3.08	-.00	-.00		.01	.01	.000
		3.8	-.03	-4.25	3.32	-.11	-.11	3.08	-.00	-.01		.01	.01	.000
		7.5	-.03	-9.05	8.25	-.11	-.11	3.08	-.00	-.02		.01	.01	.001
		11.3	-.03	-13.86	13.17	-.11	-.11	3.08	-.00	-.03		.01	.01	.001
		15.0	-.03	-18.66	18.10	-.11	-.11	3.08	-.00	-.04		.01	.01	.002
203- 306	120- 1	0.0	.05	-.04	2.12	.01	.00	.10	.00	.04		.00	.00	.002
		8.2	.05	-.00	.98	.01	.00	.10	.00	.02		.00	.00	.001
		16.3	.05	.07	-.15	.01	.00	.10	.00	.00		.00	.00	.000
		24.5	.05	.15	-1.29	.01	.00	.10	.00	.02		.00	.00	.001
		32.6	.05	.23	-2.43	.01	.00	.10	.00	.04		.00	.00	.002
204- 205	W08- 1	0.0	-.01	.00	-.01	-.00	-.00	.00	-.00	.00	-.00	.00	.00	.000
		3.6	-.01	.00	.00	-.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		7.3	-.01	.00	.02	-.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		10.9	-.01	-.00	.04	-.00	-.00	.00	-.00	-.00	.01	.00	.00	.000
		14.5	-.01	-.00	.06	-.00	-.00	.00	-.00	-.00	.01	.00	.00	.001
204- 206	W16- 1	0.0	-.04	.03	.27	.00	-.00	-.00	-.00	.00	.02	.00	.00	.001
		3.6	-.04	.00	.08	.00	-.00	-.00	-.00	.00	.01	.00	.00	.000
		7.3	-.04	-.03	-.11	.00	-.00	-.00	-.00	-.00	-.01	.00	.00	.001
		10.9	-.04	-.06	-.29	.00	-.00	-.00	-.00	-.00	-.03	.00	.00	.001
		14.5	-.04	-.09	-.48	.00	-.00	-.00	-.00	-.00	-.04	.00	.00	.002

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	CUMM. UNITY CHECK
205- 206	W16- 1	0.0	.08	-.02	.08	.00	-.00	-.00	.00	-.00	.01	.00	.00	.001
		3.6	.08	-.09	-.04	.00	-.00	-.00	.00	-.00	-.00	.00	.00	.000
		7.3	.08	-.16	-.15	.00	-.00	-.00	.00	-.00	-.01	.00	.00	.001
		10.9	.08	-.22	-.27	.00	-.00	-.00	.00	-.00	-.03	.00	.00	.001
		14.5	.08	-.29	-.38	.00	-.00	-.00	.00	-.00	-.04	.00	.00	.002
205- 301	120- 1	0.0	.01	.13	.21	-.00	-.00	-.37	.00	.00		.00	.00	.000
		8.2	.01	.03	.67	-.00	-.00	-.37	.00	.01		.00	.00	.001
		16.3	.01	-.07	1.13	-.00	-.00	-.37	.00	.02		.00	.00	.001
		24.5	.01	-.18	1.59	-.00	-.00	-.37	.00	.03		.00	.00	.001
		32.6	.01	-.28	2.05	-.00	-.00	-.37	.00	.04		.00	.00	.002
206- 306	DRL- 1	0.0	.00	-1.01	-.31	-.05	.05	2.60	.00	.00		.00	.00	.000
		3.8	.00	1.03	2.00	-.05	.05	2.60	.00	.00		.00	.00	.000
		7.5	.00	3.07	4.30	-.05	.05	2.60	.00	.01		.00	.00	.000
		11.3	.00	5.11	6.60	-.05	.05	2.60	.00	.01		.00	.00	.001
		15.0	.00	7.15	8.91	-.05	.05	2.60	.00	.02		.00	.00	.001
301- 303	123- 1	0.0	.48	-.39	-2.62	-.01	.00	-.14	.02	.05		.00	.00	.003
		7.3	.48	-.35	-1.96	-.01	.00	-.14	.02	.04		.00	.00	.003
		14.5	.48	-.31	-1.29	-.01	.00	-.14	.02	.02		.00	.00	.002
		21.7	.48	-.27	-.63	-.01	.00	-.14	.02	.01		.00	.00	.002
		29.0	.48	-.23	.03	-.01	.00	-.14	.02	.00		.00	.00	.001
301- 306	123- 1	0.0	.03	-.34	-2.13	-.00	.00	.18	.00	.04		.00	.00	.002
		7.2	.03	-.20	-1.78	-.00	.00	.18	.00	.03		.00	.00	.001
		14.5	.03	-.07	-1.44	-.00	.00	.18	.00	.03		.00	.00	.001
		21.7	.03	.06	-1.09	-.00	.00	.18	.00	.02		.00	.00	.001
		29.0	.03	.19	-.74	-.00	.00	.18	.00	.01		.00	.00	.001
301- 401	DRL- 1	0.0	.11	3.60	-23.01	-.24	-.02	-13.65	.00	.04		.02	.02	.002
		7.1	.11	1.79	-2.75	-.24	-.02	-13.65	.00	.01		.02	.02	.000
		14.2	.11	-.22	17.51	-.24	-.02	-13.65	.00	.03		.02	.02	.001
		21.4	.11	-2.24	37.77	-.24	-.02	-13.65	.00	.06		.02	.02	.003
		28.5	.11	-4.25	58.03	-.24	-.02	-13.65	.00	.09		.02	.02	.004
303- 306	123- 1	0.0	-.30	.21	2.82	.02	-.00	-.14	-.02	-.05		.00	.00	.003
		7.2	-.30	.18	1.34	.02	-.00	-.14	-.02	-.02		.00	.00	.002
		14.5	-.30	.15	-.14	.02	-.00	-.14	-.02	-.00		.00	.00	.001
		21.7	-.30	.13	-1.62	.02	-.00	-.14	-.02	-.03		.00	.00	.002
		29.0	-.30	.10	-3.10	.02	-.00	-.14	-.02	-.05		.00	.00	.003
303- 403	DRL- 1	0.0	.00	-19.01	18.86	.25	.16	6.39	.00	.04		.01	.01	.002
		7.1	.00	-5.52	-2.83	.25	.16	6.39	.00	.01		.01	.01	.000
		14.2	.00	7.97	-24.52	.25	.16	6.39	.00	.04		.01	.01	.002
		21.4	.00	21.46	-46.21	.25	.16	6.39	.00	.08		.01	.01	.003
		28.5	.00	34.95	-67.90	.25	.16	6.39	.00	.12		.01	.01	.005

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
306- 406	DKL- 1	0.0	.03	8.27	8.11	.11	-.14	8.65	.00	.02		.01	.01	.001
		7.1	.03	-3.56	-1.47	.11	-.14	8.65	.00	.01		.01	.01	.000
		14.2	.03	-15.38	-11.04	.11	-.14	8.65	.00	.03		.01	.01	.001
		21.4	.03	-27.20	-20.62	.11	-.14	8.65	.00	.05		.01	.01	.002
		28.5	.03	-39.02	-30.19	.11	-.14	8.65	.00	.08		.01	.01	.003
401- 501	JL4- 1	0.0	6.82	23.91	11.03	.65	.89	-35.24	.03	.01		.02	.02	.002
		1.1	6.82	36.02	-.57	.65	.89	-35.24	.03	.01		.02	.02	.002
		2.3	6.82	48.14	-12.17	.65	.89	-35.24	.03	.02		.02	.02	.002
		3.4	6.82	60.25	-23.77	.65	.89	-35.24	.03	.02		.02	.02	.002
		4.6	6.82	72.37	-35.36	.65	.89	-35.24	.03	.03		.02	.02	.002
401- 510	P1- 1	0.0	-6.68	28.34	-34.00	-.75	-.69	17.36	-.03	-.02		.01	.01	.002
		1.1	-6.68	18.84	-23.74	-.75	-.69	17.36	-.03	-.01		.01	.01	.002
		2.3	-6.68	9.35	-13.48	-.75	-.69	17.36	-.03	-.01		.01	.01	.002
		3.4	-6.68	-.14	-3.22	-.75	-.69	17.36	-.03	-.00		.01	.01	.001
		4.6	-6.68	-9.63	7.04	-.75	-.69	17.36	-.03	-.01		.01	.01	.002
403- 503	JL4- 1	0.0	97.94	63.79	14.25	-.62	.73	35.96	.39	.02		.01	.01	.019
		1.1	97.94	73.78	22.70	-.62	.73	35.96	.39	.03		.01	.01	.019
		2.3	97.94	83.77	31.15	-.62	.73	35.96	.39	.03		.01	.01	.019
		3.4	97.94	93.76	39.60	-.62	.73	35.96	.39	.04		.01	.01	.019
		4.6	97.94	103.75	48.05	-.62	.73	35.96	.39	.04		.01	.01	.020
403- 511	P1- 1	0.0	-98.07	-21.08	49.93	.41	-.72	-18.45	-.44	-.03		.01	.01	.022
		1.1	-98.07	-30.92	44.25	.41	-.72	-18.45	-.44	-.03		.01	.01	.022
		2.3	-98.07	-40.76	38.56	.41	-.72	-18.45	-.44	-.03		.01	.01	.022
		3.4	-98.07	-50.60	32.88	.41	-.72	-18.45	-.44	-.03		.01	.01	.022
		4.6	-98.07	-60.44	27.19	.41	-.72	-18.45	-.44	-.03		.01	.01	.022
406- 506	JL4- 1	0.0	-68.71	-34.97	-21.54	-.86	.96	23.16	-.35	-.01		.01	.01	.017
		1.1	-68.71	-21.85	-9.80	-.86	.96	23.16	-.35	-.01		.01	.01	.017
		2.3	-68.71	-8.74	1.95	-.86	.96	23.16	-.35	-.00		.01	.01	.016
		3.4	-68.71	4.37	13.69	-.86	.96	23.16	-.35	-.01		.01	.01	.016
		4.6	-68.71	17.48	25.45	-.86	.96	23.16	-.35	-.01		.01	.01	.017
406- 512	P1- 1	0.0	68.71	-4.06	-9.67	.97	-1.07	-19.59	.40	.00		.02	.02	.019
		1.1	68.71	-18.69	-22.98	.97	-1.07	-19.59	.40	.01		.02	.02	.019
		2.3	68.71	-33.32	-36.28	.97	-1.07	-19.59	.40	.02		.02	.02	.020
		3.4	68.71	-47.95	-49.59	.97	-1.07	-19.59	.40	.03		.02	.02	.020
		4.6	68.71	-62.58	-62.89	.97	-1.07	-19.59	.40	.04		.02	.02	.020
501- 502	165- 1	0.0	-2.42	2.24	-30.70	-.24	.00	.63	-.08	-.28		.02	.02	.016
		3.8	-2.42	2.39	-19.93	-.24	.00	.63	-.08	-.18		.02	.02	.012
		7.6	-2.42	2.55	-9.17	-.24	.00	.63	-.08	-.09		.02	.02	.008
		11.4	-2.42	2.70	1.59	-.24	.00	.63	-.08	-.03		.02	.02	.006
		15.1	-2.42	2.85	12.35	-.24	.00	.63	-.08	-.11		.02	.02	.009

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
501- 504	165- 1	0.0	2.49	2.37	-31.77	-.26	-.01	-1.68	.08	.29		.02	.02	.016
		3.8	2.49	1.92	-20.14	-.26	-.01	-1.68	.08	.18		.02	.02	.011
		7.6	2.49	1.47	-8.52	-.26	-.01	-1.68	.08	.08		.02	.02	.007
		11.4	2.49	1.01	3.10	-.26	-.01	-1.68	.08	.03		.02	.02	.005
		15.1	2.49	.56	14.72	-.26	-.01	-1.68	.08	.13		.02	.02	.009
501- 601	JL5- 1	0.0	7.77	87.67	-24.82	-2.12	-1.46	-85.92	.05	.06		.06	.06	.005
		1.5	7.77	61.21	13.89	-2.12	-1.46	-85.92	.05	.04		.06	.06	.004
		3.0	7.77	34.56	52.60	-2.12	-1.46	-85.92	.05	.04		.06	.06	.004
		4.6	7.77	7.90	91.31	-2.12	-1.46	-85.92	.05	.06		.06	.06	.005
		6.1	7.77	-18.75	130.06	-2.12	-1.46	-85.92	.05	.08		.06	.06	.006
501- 622	200- 1	0.0	-2.71	13.78	15.21	.18	-.03	3.25	-.07	-.11		.02	.02	.008
		5.1	-2.71	12.05	4.31	.18	-.03	3.25	-.07	-.07		.02	.02	.007
		10.2	-2.71	10.32	-6.59	.18	-.03	3.25	-.07	-.07		.02	.02	.006
		15.3	-2.71	8.59	-17.49	.18	-.03	3.25	-.07	-.11		.02	.02	.008
		20.4	-2.71	6.86	-28.39	.18	-.03	3.25	-.07	-.16		.02	.02	.010
502- 503	165- 1	0.0	-2.71	2.70	10.57	.14	.01	-.15	-.09	-.10		.01	.01	.009
		3.8	-2.71	3.32	4.43	.14	.01	-.15	-.09	-.05		.01	.01	.007
		7.6	-2.71	3.94	-1.70	.14	.01	-.15	-.09	-.04		.01	.01	.007
		11.4	-2.71	4.56	-7.84	.14	.01	-.15	-.09	-.08		.01	.01	.006
		15.1	-2.71	5.17	-13.97	.14	.01	-.15	-.09	-.13		.01	.01	.011
502- 504	105- 1	0.0	-.07	.45	1.61	.02	-.01	.04	-.01	-.06		.00	.00	.003
		3.8	-.07	.18	.87	.02	-.01	.04	-.01	-.03		.00	.00	.002
		7.6	-.07	-.09	.12	.02	-.01	.04	-.01	-.00		.00	.00	.001
		11.4	-.07	-.36	-.63	.02	-.01	.04	-.01	-.02		.00	.00	.001
		15.2	-.07	-.63	-1.38	.02	-.01	.04	-.01	-.05		.00	.00	.002
502- 505	105- 1	0.0	.49	.57	.17	-.01	-.00	-.15	.04	.02		.00	.00	.003
		3.8	.49	.37	.42	-.01	-.00	-.15	.04	.02		.00	.00	.003
		7.6	.49	.18	.68	-.01	-.00	-.15	.04	.02		.00	.00	.003
		11.4	.49	-.02	.93	-.01	-.00	-.15	.04	.03		.00	.00	.003
		15.2	.49	-.21	1.19	-.01	-.00	-.15	.04	.04		.00	.00	.004
503- 505	165- 1	0.0	-1.88	3.04	10.43	.05	-.02	1.56	-.06	-.10		.01	.01	.008
		3.8	-1.88	2.60	7.95	.05	-.02	1.56	-.06	-.08		.01	.01	.007
		7.6	-1.88	1.73	5.47	.05	-.02	1.56	-.06	-.05		.01	.01	.006
		11.4	-1.88	.65	2.99	.05	-.02	1.56	-.06	-.03		.01	.01	.005
		15.1	-1.88	-.43	.51	.05	-.02	1.56	-.06	-.01		.01	.01	.004
503- 603	JL5- 1	0.0	88.91	48.35	27.99	1.65	.02	70.13	.62	.04		.05	.05	.030
		1.5	88.91	48.67	-2.03	1.65	.02	70.13	.62	.03		.05	.05	.030
		3.0	88.91	48.99	-32.04	1.65	.02	70.13	.62	.04		.05	.05	.030
		4.6	88.91	49.31	-62.06	1.65	.02	70.13	.62	.05		.05	.05	.031
		6.1	88.91	49.63	-92.08	1.65	.02	70.13	.62	.07		.05	.05	.032

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
503- 625	200- 1	0.0	6.83	49.87	19.49	.08	-.38	3.32	.18	.30		.03	.03	.021
		5.1	6.83	26.62	14.79	.08	-.38	3.32	.18	.17		.03	.03	.015
		10.1	6.83	3.38	10.09	.08	-.38	3.32	.18	.06		.03	.03	.011
		15.2	6.83	-19.87	5.39	.08	-.38	3.32	.18	.12		.03	.03	.013
		20.3	6.83	-43.11	.69	.08	-.38	3.32	.18	.24		.03	.03	.018
504- 505	105- 1	0.0	-.43	.14	-.36	-.01	.00	.13	-.04	-.01		.00	.00	.002
		3.8	-.43	.19	.10	-.01	.00	.13	-.04	-.01		.00	.00	.002
		7.6	-.43	.25	.56	-.01	.00	.13	-.04	-.02		.00	.00	.003
		11.4	-.43	.30	1.02	-.01	.00	.13	-.04	-.04		.00	.00	.003
		15.2	-.43	.36	1.48	-.01	.00	.13	-.04	-.05		.00	.00	.004
504- 506	165- 1	0.0	2.67	.03	13.70	.19	-.02	-2.14	.09	.12		.02	.02	.009
		3.8	2.67	-.74	5.11	.19	-.02	-2.14	.09	.05		.02	.02	.006
		7.6	2.67	-1.52	-3.48	.19	-.02	-2.14	.09	.03		.02	.02	.006
		11.4	2.67	-2.30	-12.08	.19	-.02	-2.14	.09	.11		.02	.02	.009
		15.2	2.67	-3.07	-20.67	.19	-.02	-2.14	.09	.19		.02	.02	.012
505- 506	165- 1	0.0	-1.41	-.73	3.18	.11	-.03	1.30	-.05	-.03		.01	.01	.004
		3.8	-1.41	-1.95	-1.71	.11	-.03	1.30	-.05	-.02		.01	.01	.004
		7.6	-1.41	-3.17	-6.60	.11	-.03	1.30	-.05	-.07		.01	.01	.005
		11.4	-1.41	-4.38	-11.49	.11	-.03	1.30	-.05	-.11		.01	.01	.007
		15.2	-1.41	-5.60	-16.38	.11	-.03	1.30	-.05	-.15		.01	.01	.009
505- 606	JLS- 1	0.0	-66.47	9.22	-16.19	.34	-1.44	17.72	-.60	-.01		.03	.03	.029
		1.5	-66.47	-17.04	-22.48	.34	-1.44	17.72	-.60	-.02		.03	.03	.029
		3.0	-66.47	-43.29	-28.77	.34	-1.44	17.72	-.60	-.03		.03	.03	.030
		4.6	-66.47	-69.55	-35.06	.34	-1.44	17.72	-.60	-.05		.03	.03	.030
		6.1	-66.47	-95.81	-41.36	.34	-1.44	17.72	-.60	-.07		.03	.03	.031
506- 624	200- 1	0.0	-4.51	22.91	-48.12	-.36	-.17	-5.41	-.12	-.30		.04	.04	.018
		5.1	-4.51	12.59	-26.12	-.36	-.17	-5.41	-.12	-.16		.04	.04	.013
		10.1	-4.51	2.27	-4.12	-.36	-.17	-5.41	-.12	-.03		.04	.04	.007
		15.2	-4.51	-8.05	17.88	-.36	-.17	-5.41	-.12	-.11		.04	.04	.011
		20.2	-4.51	-17.63	39.49	-.32	-.11	-5.41	-.12	-.24		.03	.03	.016
510- 710	P1- 1	0.0	-6.68	-9.69	6.98	-1.66	-.40	17.35	-.03	-.01		.02	.02	.002
		6.3	-6.68	-40.40	133.24	-1.66	-.40	17.35	-.03	-.07		.02	.02	.004
		12.7	-6.68	-71.10	259.49	-1.66	-.40	17.35	-.03	-.13		.02	.02	.007
		19.0	-6.68	-101.81	385.75	-1.66	-.40	17.35	-.03	-.19		.02	.02	.009
		25.3	-6.68	-132.51	512.00	-1.66	-.40	17.35	-.03	-.25		.02	.02	.012
511- 711	P1- 1	0.0	-98.07	-60.29	27.56	1.62	1.61	-18.39	-.44	-.03		.02	.02	.023
		6.3	-98.07	62.18	-95.56	1.62	1.61	-18.39	-.44	-.05		.02	.02	.024
		12.7	-98.07	184.64	-218.69	1.62	1.61	-18.39	-.44	-.13		.02	.02	.027
		19.0	-98.07	307.10	-341.81	1.62	1.61	-18.39	-.44	-.21		.02	.02	.031
		25.3	-98.07	429.56	-464.94	1.62	1.61	-18.39	-.44	-.30		.02	.02	.034

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
512- 712	P1- 1	0.0	68.71	-62.58	-62.88	-.29	-.83	-19.62	.40	.04		.01	.01	.020
		6.3	68.71	-125.54	-40.60	-.29	-.83	-19.62	.40	.06		.01	.01	.021
		12.7	68.71	-188.50	-18.33	-.29	-.83	-19.62	.40	.09		.01	.01	.022
		19.0	68.71	-251.47	3.95	-.29	-.83	-19.62	.40	.12		.01	.01	.024
		25.3	68.71	-314.45	26.23	-.29	-.83	-19.62	.40	.15		.01	.01	.025
601- 621	JL6- 1	0.0	7.31	-25.23	112.40	-1.70	-1.14	-106.30	.05	.07		.06	.06	.005
		1.5	7.31	-46.07	143.41	-1.70	-1.14	-106.30	.05	.09		.06	.06	.006
		3.0	7.31	-66.90	174.42	-1.70	-1.14	-106.30	.05	.12		.06	.06	.007
		4.6	7.31	-87.73	205.43	-1.70	-1.14	-106.30	.05	.14		.06	.06	.008
		6.1	7.31	-108.56	236.43	-1.70	-1.14	-106.30	.05	.16		.06	.06	.009
603- 623	JL6- 1	0.0	68.29	39.81	-66.17	1.36	.20	85.26	.62	.05		.05	.05	.031
		1.5	68.29	43.53	-91.04	1.36	.20	85.26	.62	.06		.05	.05	.031
		3.0	68.29	47.24	-115.90	1.36	.20	85.26	.62	.08		.05	.05	.032
		4.6	68.29	50.96	-140.77	1.36	.20	85.26	.62	.09		.05	.05	.033
		6.1	68.29	54.68	-165.64	1.36	.20	85.26	.62	.11		.05	.05	.035
606- 626	JL6- 1	0.0	-66.47	-95.81	-41.30	.34	-1.72	17.85	-.60	-.07		.03	.03	.031
		1.5	-66.47	-127.17	-47.59	.34	-1.72	17.85	-.60	-.09		.03	.03	.032
		3.0	-66.47	-158.53	-53.87	.34	-1.72	17.85	-.60	-.11		.03	.03	.033
		4.6	-66.49	-189.56	-59.97	.29	-1.63	17.85	-.61	-.12		.03	.03	.034
		6.1	-66.59	-217.60	-64.28	.11	-1.32	17.85	-.61	-.14		.02	.02	.034
621- 651	JL6- 1	0.0	7.31	-107.48	236.82	-1.70	-1.12	-106.54	.05	.16		.06	.06	.009
		1.5	7.31	-127.88	265.02	-1.30	-1.11	-106.54	.05	.18		.06	.06	.010
		3.0	7.32	-148.02	284.13	-.79	-1.10	-106.54	.05	.20		.05	.05	.011
		4.6	7.32	-167.87	294.07	-.30	-1.08	-106.54	.05	.21		.05	.05	.011
		6.1	7.32	-187.42	294.94	.20	-1.06	-106.54	.05	.22		.05	.05	.012
622- 703	200- 1	0.0	-2.71	6.88	-28.35	.18	-.06	3.59	-.07	-.16		.02	.02	.010
		5.4	-2.70	3.12	-38.03	.03	-.05	3.59	-.07	-.21		.01	.01	.013
		10.9	-2.70	-.38	-29.61	-.29	-.06	3.59	-.07	-.17		.03	.03	.011
		16.3	-2.70	-5.44	.12	-.62	-.10	3.59	-.07	-.03		.04	.04	.005
		21.8	-2.68	-13.86	50.35	-.91	-.16	3.59	-.07	-.29		.06	.06	.016
623- 653	JL6- 1	0.0	68.29	55.42	-165.25	1.29	.33	85.54	.62	.11		.05	.05	.033
		1.5	68.29	61.52	-188.76	1.29	.33	85.54	.62	.12		.05	.05	.034
		3.0	68.27	67.56	-212.23	1.26	.29	85.54	.62	.14		.04	.04	.034
		4.6	68.15	69.46	-233.04	1.02	-.08	85.54	.62	.15		.04	.04	.035
		6.1	68.03	64.85	-249.65	.79	-.43	85.54	.62	.16		.04	.04	.035
624- 701	200- 1	0.0	-4.51	-17.84	39.48	-.32	-.11	-5.40	-.12	-.24		.03	.03	.016
		5.5	-4.50	-16.68	50.33	-.00	.07	-5.40	-.12	-.30		.02	.02	.019
		11.0	-4.50	-9.28	39.83	.32	.21	-5.40	-.12	-.23		.04	.04	.016
		16.5	-4.51	9.06	8.79	.62	.34	-5.40	-.12	-.07		.05	.05	.009
		21.9	-4.51	34.78	-41.38	.91	.44	-5.40	-.12	-.30		.07	.07	.019

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECT.	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS	BENDING STRESS Y	BENDING STRESS Z	Y SHEAR STRESS	Z SHEAR STRESS	COMB. UNITY CHECK
									KSI	KSI	KSI	KSI	KSI	
625- 706	200- 1	0.0	6.83	-43.11	.68	.07	-.36	3.30	.18	.24		.03	.03	.016
		5.5	6.84	-53.46	-3.60	.06	.08	3.30	.18	.30		.01	.01	.021
		11.0	6.81	-33.15	-7.35	.06	.53	3.30	.18	.19		.04	.04	.016
		16.4	6.81	15.64	-11.06	.06	.95	3.30	.18	.11		.06	.06	.013
		21.9	6.81	90.18	-14.29	.04	1.31	3.30	.18	.51		.08	.08	.030
625- 656	JL6- 1	0.0	-66.57	-217.30	-64.14	.16	-1.27	17.75	-.61	-.14		.02	.02	.034
		1.5	-66.42	-236.67	-64.67	-.11	-.85	17.75	-.60	-.15		.02	.02	.035
		3.0	-66.28	-248.45	-60.34	-.37	-.44	17.75	-.60	-.16		.01	.01	.035
		4.6	-66.15	-252.79	-51.29	-.62	-.04	17.75	-.60	-.16		.01	.01	.035
		6.1	-66.02	-249.79	-37.66	-.87	.36	17.75	-.60	-.16		.02	.02	.035
651- 701	JL6- 1	0.0	7.31	-189.95	276.75	2.30	-.38	-141.14	.05	.21		.08	.08	.011
		1.8	7.31	-198.25	221.75	2.87	-.40	-141.14	.05	.19		.08	.08	.010
		3.5	7.31	-206.97	154.71	3.43	-.42	-141.14	.05	.16		.09	.09	.009
		5.3	7.30	-216.06	75.93	3.97	-.43	-141.14	.05	.14		.10	.10	.008
		7.1	7.30	-225.46	-14.29	4.50	-.45	-141.14	.05	.14		.11	.11	.008
653- 703	JL6- 1	0.0	92.73	99.67	-255.65	-.56	-.83	99.60	.65	.17		.05	.05	.037
		1.8	92.73	77.10	-241.02	-.82	-1.31	99.60	.65	.16		.05	.05	.037
		3.5	92.72	44.37	-220.91	-1.07	-1.77	99.60	.65	.14		.06	.06	.036
		5.3	92.72	1.92	-195.39	-1.32	-2.22	99.60	.65	.12		.07	.07	.035
		7.1	92.72	-49.99	-164.54	-1.57	-2.66	99.60	.65	.11		.07	.07	.035
656- 706	JL6- 1	0.0	-66.02	-249.79	-37.67	-.87	.40	17.73	-.60	-.16		.02	.02	.035
		1.8	-66.02	-235.70	-15.97	-1.17	.92	17.73	-.60	-.15		.03	.03	.034
		3.5	-66.02	-210.70	12.06	-1.46	1.43	17.73	-.60	-.13		.03	.03	.034
		5.3	-66.01	-174.98	46.53	-1.75	1.93	17.73	-.60	-.11		.04	.04	.033
		7.1	-66.00	-128.75	86.73	-2.04	2.42	17.73	-.60	-.10		.05	.05	.032
701- 702	137- 1	0.0	-8.00	81.53	-13.69	.05	-.97	7.04	-.42	-1.46		.16	.16	.089
		4.7	-8.00	32.24	-14.01	-.05	-.79	7.04	-.42	-.62		.14	.14	.054
		9.4	-8.00	-7.16	-8.40	-.16	-.62	7.04	-.42	-.19		.13	.13	.036
		14.1	-8.00	-37.32	3.81	-.28	-.46	7.04	-.42	-.66		.12	.12	.056
		18.8	-8.00	-58.90	23.29	-.41	-.31	7.04	-.42	-1.12		.12	.12	.075
701- 704	137- 1	0.0	.69	95.24	-13.69	.07	-1.10	-5.24	.04	1.70		.16	.16	.073
		4.7	.69	38.68	-14.47	-.04	-.91	-5.24	.04	.73		.14	.14	.032
		9.4	.68	-7.33	-9.35	-.14	-.72	-5.24	.04	.21		.12	.12	.010
		14.1	.67	-42.78	1.65	-.25	-.54	-5.24	.04	.75		.11	.11	.033
		18.8	.67	-67.69	18.54	-.35	-.35	-5.24	.03	1.24		.10	.10	.054
701- 801	JL7- 1	0.0	-5.16	26.49	60.07	-3.34	-.08	-62.30	-.07	-.08		.13	.13	.007
		7.1	-5.17	16.18	259.85	-1.38	-.12	-62.30	-.07	-.33		.08	.08	.018
		14.2	-5.18	4.45	298.76	.44	-.20	-62.30	-.07	-.38		.05	.05	.020
		21.3	-5.20	-15.55	187.83	2.14	-.27	-62.30	-.07	-.24		.10	.10	.014
		28.4	-5.21	-41.24	-62.86	3.72	-.33	-62.30	-.07	-.10		.15	.15	.008

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
701- 806	200- 1	0.0	11.78	86.57	77.87	1.06	-1.04	3.29	.31	.66		.09	.09	.042
		12.5	11.82	-22.68	-36.83	.47	-.46	3.29	.31	.24		.04	.04	.025
		25.1	11.83	-56.57	-65.47	-.07	.01	3.29	.31	.48		.01	.01	.035
		37.6	11.82	-22.41	-22.19	-.49	.44	3.29	.31	.18		.04	.04	.022
		50.2	11.84	73.12	81.25	-.88	.81	3.29	.31	.61		.07	.07	.040
702- 705	137- 1	0.0	-8.53	-58.71	17.15	.57	.36	-7.58	-.44	-1.08		.12	.12	.075
		4.7	-8.53	-34.79	.26	.23	.49	-7.58	-.44	-.61		.12	.12	.055
		9.4	-8.53	-3.62	-8.71	.09	.61	-7.58	-.44	-.17		.13	.13	.037
		14.1	-8.53	34.15	-9.76	-.05	.73	-7.58	-.44	-.63		.14	.14	.056
		18.8	-8.53	77.66	-2.89	-.19	.83	-7.58	-.44	-1.37		.15	.15	.087
702- 704	107- 1	0.0	.15	6.77	-.29	.00	-.34	.18	.01	.29		.06	.06	.013
		4.7	.15	-6.08	-.46	.00	-.19	.18	.01	.20		.03	.03	.009
		9.4	.15	-12.35	-.63	.00	-.03	.18	.01	.41		.01	.01	.018
		14.1	.15	-9.39	-.81	.00	.14	.18	.01	.32		.03	.03	.014
		18.8	.15	3.46	-.98	.00	.32	.18	.01	.12		.06	.06	.006
702- 705	107- 1	0.0	.87	6.35	6.42	.20	-.33	-.21	.07	.35		.07	.07	.018
		4.7	.86	-6.24	-1.88	.10	-.18	-.21	.07	.22		.04	.04	.013
		9.4	.86	-12.25	-4.29	-.01	-.03	-.21	.07	.43		.01	.01	.022
		14.1	.85	-9.02	-.81	-.11	.14	-.21	.07	.30		.03	.03	.016
		18.8	.84	4.10	8.55	-.22	.32	-.21	.07	.32		.07	.07	.017
703- 705	137- 1	0.0	4.31	89.78	17.10	.13	-.94	6.00	.22	1.61		.15	.15	.078
		4.7	4.31	39.58	9.86	.13	-.84	6.00	.22	.72		.14	.14	.041
		9.4	4.31	-4.03	2.62	.13	-.71	6.00	.22	.08		.13	.13	.014
		14.1	4.31	-39.73	-4.62	.13	-.56	6.00	.22	.71		.11	.11	.040
		18.8	4.31	-66.19	-11.87	.13	-.38	6.00	.22	1.19		.09	.09	.060
703- 801	200- 1	0.0	12.44	76.18	-120.25	-1.57	-.76	-3.57	.33	.80		.09	.09	.049
		12.5	12.43	-7.97	30.07	-.65	-.37	-3.57	.33	.17		.05	.05	.022
		25.1	12.47	-38.57	79.37	-.02	-.04	-3.57	.33	.49		.01	.01	.036
		37.6	12.51	-19.06	41.70	.51	.29	-3.57	.33	.26		.04	.04	.026
		50.2	12.49	47.19	-73.84	1.02	.58	-3.57	.33	.49		.07	.07	.036
703- 803	JL7- 1	0.0	62.26	177.91	-146.19	.91	2.04	-14.77	1.16	.29		.07	.07	.066
		7.1	62.25	281.36	-186.15	.04	.42	-14.77	1.16	.43		.02	.02	.072
		14.2	62.23	254.84	-155.28	-.75	-1.03	-14.77	1.16	.38		.05	.05	.070
		21.3	62.22	109.27	-59.78	-1.48	-2.38	-14.77	1.16	.16		.09	.09	.061
		28.4	62.22	-147.82	96.28	-2.18	-3.65	-14.77	1.16	.22		.13	.13	.063
704- 705	107- 1	0.0	-.92	7.91	8.23	.20	-.37	.06	-.08	-.38		.07	.07	.021
		4.7	-.92	-7.70	-.15	.10	-.18	.06	-.08	-.26		.04	.04	.015
		9.4	-.92	-12.76	-3.25	.01	.00	.06	-.08	-.44		.00	.00	.023
		14.1	-.92	-7.25	-1.06	-.09	.19	.06	-.08	-.25		.04	.04	.015
		18.8	-.92	8.81	6.40	-.18	.38	.06	-.08	-.36		.07	.07	.020

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
704- 706	137- 1	0.0	1.36	-70.13	9.33	.22	.34	4.69	.07	1.25		.08	.08	.056
		4.7	1.37	-45.47	-.09	.12	.54	4.69	.07	.80		.10	.10	.037
		9.4	1.37	-9.60	-4.18	.03	.74	4.69	.07	.18		.12	.12	.011
		14.1	1.38	38.16	-3.52	-.05	.96	4.69	.07	.68		.14	.14	.032
		18.9	1.40	98.46	1.32	-.12	1.19	4.69	.07	1.74		.17	.17	.076
705- 706	137- 1	0.0	5.54	-68.68	3.09	.04	.32	-5.33	.29	1.21		.08	.08	.064
		4.7	5.54	-45.08	.73	.04	.52	-5.33	.29	.80		.10	.10	.047
		9.4	5.54	-10.26	-1.62	.04	.72	-5.33	.29	.18		.12	.12	.021
		14.1	5.54	36.43	-3.98	.04	.94	-5.33	.29	.65		.14	.14	.041
		18.8	5.54	95.07	-6.34	.04	1.17	-5.33	.29	1.69		.17	.17	.084
706- 803	200- 1	0.0	-22.50	-11.85	26.62	.13	-.09	1.08	-.59	-.16		.01	.01	.045
		12.5	-22.55	-2.84	9.74	.10	.16	1.08	-.59	-.06		.01	.01	.039
		25.1	-22.54	21.85	-4.59	.09	.13	1.08	-.59	-.12		.01	.01	.041
		37.6	-22.50	26.70	-13.76	.03	-.09	1.08	-.59	-.17		.01	.01	.043
		50.2	-22.49	-8.74	-17.51	.03	-.38	1.08	-.59	-.11		.02	.02	.041
706- 806	JL7- 1	0.0	-73.71	109.19	119.22	2.21	-3.85	63.59	-1.04	-.21		.17	.17	.059
		7.1	-73.70	-141.51	-25.39	1.20	-2.06	63.59	-1.04	-.18		.11	.11	.059
		14.2	-73.70	-246.48	-68.20	.28	-.42	63.59	-1.04	-.33		.05	.05	.065
		21.3	-73.68	-216.82	-75.45	-.58	1.10	63.59	-1.04	-.29		.08	.08	.063
		28.4	-73.66	-61.95	8.31	-1.38	2.52	63.59	-1.04	-.08		.12	.12	.054
710- 810	P2- 1	0.0	-6.66	-131.75	512.21	.11	.62	17.18	-.03	-.22		.01	.01	.011
		7.1	-6.66	-79.10	502.95	.11	.62	17.18	-.03	-.21		.01	.01	.010
		14.2	-6.68	-26.44	493.69	.11	.62	17.18	-.03	-.21		.01	.01	.010
		21.3	-6.66	26.22	484.44	.11	.62	17.18	-.03	-.20		.01	.01	.010
		28.4	-6.68	78.88	475.18	.11	.62	17.18	-.03	-.20		.01	.01	.010
711- 811	P2- 1	0.0	-98.07	430.25	-464.31	-.95	.06	-18.11	-.39	-.26		.01	.01	.030
		7.1	-98.07	435.26	-383.19	-.95	.06	-18.11	-.39	-.24		.01	.01	.029
		14.2	-98.07	440.28	-302.07	-.95	.06	-18.11	-.39	-.22		.01	.01	.029
		21.3	-98.07	445.30	-220.96	-.95	.06	-18.11	-.39	-.21		.01	.01	.028
		28.4	-98.07	450.31	-139.84	-.95	.06	-18.11	-.39	-.20		.01	.01	.027
712- 812	P2- 1	0.0	68.71	-314.43	26.22	.92	-.57	-19.63	.35	.13		.01	.01	.022
		7.1	68.71	-363.19	-52.09	.92	-.57	-19.63	.35	.15		.01	.01	.023
		14.2	68.71	-411.95	-130.41	.92	-.57	-19.63	.35	.18		.01	.01	.02
		21.3	68.71	-460.71	-208.72	.92	-.57	-19.63	.35	.21		.01	.01	.025
		28.4	68.71	-509.47	-287.03	.92	-.57	-19.63	.35	.24		.01	.01	.027
801- 802	140- 1	0.0	-.82	36.89	-26.35	.03	-.37	5.15	-.04	-.66		.07	.07	.030
		5.7	-.82	13.71	-24.48	-.08	-.31	5.15	-.04	-.41		.07	.07	.020
		11.4	-.82	-5.58	-14.81	-.20	-.25	5.15	-.04	-.23		.07	.07	.012
		17.1	-.82	-20.97	2.65	-.31	-.20	5.15	-.04	-.31		.07	.07	.016
		22.8	-.82	-32.47	27.91	-.43	-.14	5.15	-.04	-.62		.08	.08	.029

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MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
801- 804	14B- 1	0.0	7.74	65.94	-27.03	.02	-.55	-.71	.36	1.00		.06	.06	.059
		5.7	7.73	20.68	-24.06	-.10	-.48	-.71	.36	.54		.05	.05	.040
		11.4	7.74	-1.72	-13.24	-.21	-.40	-.71	.36	.19		.05	.05	.025
		17.1	7.75	-26.27	4.59	-.31	-.31	-.71	.37	.39		.05	.05	.033
		22.8	7.76	-44.00	24.58	-.39	-.20	-.71	.37	.76		.05	.05	.049
801- 901	JLB- 1	0.0	10.24	59.24	-60.60	-3.02	-.09	-1.49	.14	.11		.09	.09	.011
		8.1	10.23	47.25	150.89	-1.35	-.15	-1.49	.14	.20		.04	.04	.015
		16.2	10.23	29.66	205.83	.21	-.20	-1.49	.14	.26		.01	.01	.018
		24.3	10.22	6.58	112.47	1.70	-.23	-1.49	.14	.14		.05	.05	.013
		32.4	10.22	-15.00	-122.84	3.12	-.26	-1.49	.14	.16		.09	.09	.013
801- 903	20D- 1	0.0	-17.72	-40.34	66.92	.91	.26	5.00	-.47	-.44		.06	.06	.050
		14.9	-17.71	1.25	-46.53	.57	.19	5.00	-.47	-.26		.04	.04	.042
		29.8	-17.68	23.80	-72.78	-.08	.05	5.00	-.46	-.43		.02	.02	.049
		44.7	-17.72	14.54	-19.68	-.52	-.16	5.00	-.47	-.14		.04	.04	.037
		59.6	-17.79	-33.24	111.90	-.96	-.38	5.00	-.47	-.65		.07	.07	.059
802- 803	14B- 1	0.0	-1.50	-29.35	15.89	.28	.16	-6.48	-.07	-.48		.08	.08	.025
		5.7	-1.50	-16.49	.32	.17	.22	-6.48	-.07	-.24		.07	.07	.015
		11.4	-1.50	.26	-7.46	.06	.27	-6.48	-.07	-.11		.07	.07	.010
		17.1	-1.50	20.91	-7.44	-.06	.33	-6.48	-.07	-.32		.08	.08	.019
		22.8	-1.50	45.45	.37	-.17	.39	-6.48	-.07	-.66		.09	.09	.033
802- 804	10B- 1	0.0	-.00	9.40	1.44	.01	-.18	-.45	-.00	-.32		.04	.04	.013
		5.7	-.00	-.01	.89	.01	-.12	-.45	-.00	-.04		.03	.03	.002
		11.4	-.00	-6.14	.35	.01	-.04	-.45	-.00	-.21		.01	.01	.009
		17.1	-.00	-5.62	-.20	.01	.06	-.45	-.00	-.19		.02	.02	.006
		22.8	-.00	1.71	-.75	.01	.16	-.45	-.00	-.06		.03	.03	.003
802- 805	10B- 1	0.0	.95	3.42	10.56	.23	-.12	.61	.08	.37		.05	.05	.019
		5.7	.94	-2.78	-.75	.11	-.06	.61	.08	.10		.03	.03	.008
		11.4	.95	-5.08	-4.23	-.00	-.01	.61	.08	.22		.01	.01	.013
		17.1	.96	-3.49	-.70	-.10	.05	.61	.08	.12		.03	.03	.009
		22.8	.98	2.00	9.01	-.18	.11	.61	.08	.31		.05	.05	.017
803- 805	14B- 1	0.0	-6.91	47.08	10.76	.05	-.32	4.84	-.33	-.71		.07	.07	.053
		5.7	-6.91	26.14	7.18	.05	-.31	4.84	-.33	-.39		.06	.06	.040
		11.4	-6.91	5.37	3.60	.05	-.29	4.84	-.33	-.09		.06	.06	.027
		17.1	-6.91	-13.45	.02	.05	-.26	4.84	-.33	-.19		.06	.06	.031
		22.8	-6.91	-29.34	-3.56	.05	-.21	4.84	-.33	-.43		.06	.06	.041
803- 903	JLB- 1	0.0	51.11	29.19	41.80	1.53	1.97	39.89	.72	.06		.09	.09	.036
		8.1	51.13	154.21	-49.97	.57	.62	39.89	.72	.21		.05	.05	.042
		16.2	51.16	152.54	-71.97	-.12	-.63	39.89	.72	.21		.04	.04	.043
		24.3	51.14	35.89	-28.34	-.78	-1.79	39.89	.72	.06		.08	.08	.036
		32.4	51.12	-195.01	77.57	-1.59	-2.91	39.89	.72	.27		.12	.12	.045

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y	Z -------KSI-------	Y SHEAR STRESS	Z SHEAR STRESS -------/	COMB. UNITY CHECK
803- 906 200- 1	0.0	32.95	106.71	44.30	.21	-.79	.16	.87	.65		.04	.04	.067
	14.9	32.96	-2.41	12.35	.15	-.43	.16	.87	.07		.02	.02	.043
	29.8	32.97	-47.35	-7.93	.08	-.07	.16	.87	.27		.01	.01	.051
	44.7	32.98	-28.09	-16.53	.02	.29	.16	.87	.18		.02	.02	.048
	59.6	32.99	55.58	-13.46	-.05	.65	.16	.87	.32		.03	.03	.054
804- 805 108- 1	0.0	-.87	1.29	6.66	.14	-.17	-.09	-.07	-.23		.04	.04	.014
	5.7	-.87	-6.47	-1.01	.08	-.06	-.09	-.07	-.22		.02	.02	.014
	11.4	-.87	-7.40	-3.80	.00	.03	-.09	-.07	-.28		.01	.01	.016
	17.1	-.87	-2.49	-.75	-.09	.11	-.09	-.07	-.09		.03	.03	.008
	22.8	-.87	7.29	9.13	-.20	.17	-.09	-.07	-.39		.05	.05	.021
804- 806 148- 1	0.0	8.33	-43.32	21.17	.30	.13	1.70	.39	.70		.04	.04	.046
	5.7	8.35	-30.86	3.62	.22	.24	1.70	.39	.45		.04	.04	.037
	11.4	8.37	-10.61	-8.60	.14	.35	1.70	.39	.20		.05	.05	.027
	17.1	8.39	17.43	-15.50	.06	.47	1.70	.40	.34		.06	.06	.033
	22.8	8.41	53.27	-17.07	-.02	.58	1.70	.40	.81		.07	.07	.052
805- 806 148- 1	0.0	-5.66	-31.54	14.57	.15	.06	-2.85	-.27	-.50		.04	.04	.040
	5.7	-5.66	-24.05	4.61	.15	.15	-2.85	-.27	-.35		.04	.04	.034
	11.4	-5.66	-10.71	-5.35	.15	.25	-2.85	-.27	-.17		.05	.05	.026
	17.1	-5.66	10.10	-15.31	.15	.36	-2.85	-.27	-.27		.06	.06	.030
	22.8	-5.66	38.71	-25.27	.15	.48	-2.85	-.27	-.67		.07	.07	.047
806- 901 200- 1	0.0	-18.16	-12.49	-99.53	-.95	-.10	-4.72	-.48	-.56		.06	.06	.056
	14.9	-18.11	-17.04	30.74	-.50	.04	-4.72	-.48	-.20		.04	.04	.040
	29.8	-18.03	-4.17	78.95	-.03	.10	-4.72	-.47	-.44		.02	.02	.050
	44.7	-18.02	14.08	38.47	.49	.10	-4.72	-.47	-.23		.04	.04	.041
	59.6	-18.02	23.51	-91.12	.95	-.01	-4.72	-.47	-.53		.06	.06	.054
805- 906 JL8- 1	0.0	-59.37	65.42	-13.45	1.53	-2.57	-46.16	-.84	-.08		.11	.11	.045
	8.1	-59.38	-111.20	-119.74	.67	-1.07	-46.16	-.84	-.21		.07	.07	.050
	16.2	-59.38	-147.67	-145.11	-.13	.31	-46.16	-.84	-.26		.04	.04	.052
	24.3	-59.41	-55.69	-95.53	-.87	1.57	-46.16	-.84	-.14		.08	.08	.047
	32.4	-59.41	154.04	23.07	-1.55	2.75	-46.16	-.84	-.20		.12	.12	.050
810- 910 P2- 1	0.0	-6.68	78.35	475.25	1.03	-.01	17.55	-.03	-.20		.01	.01	.010
	8.1	-6.68	76.94	374.52	1.03	-.01	17.55	-.03	-.16		.01	.01	.008
	16.2	-6.68	75.54	273.79	1.03	-.01	17.55	-.03	-.12		.01	.01	.006
	24.3	-6.68	74.13	173.06	1.03	-.01	17.55	-.03	-.08		.01	.01	.005
	32.4	-6.68	72.73	72.33	1.03	-.01	17.55	-.03	-.04		.01	.01	.003
811- 911 P2- 1	0.0	-98.07	450.16	-140.32	-.65	-1.79	-18.30	-.39	-.20		.02	.02	.028
	8.1	-98.07	275.87	-76.94	-.65	-1.79	-18.30	-.39	-.12		.02	.02	.024
	16.2	-98.07	101.58	-13.57	-.65	-1.79	-18.30	-.39	-.04		.02	.02	.021
	24.3	-98.07	-72.72	49.81	-.65	-1.79	-18.30	-.39	-.04		.02	.02	.021
	32.4	-98.07	-247.01	113.19	-.65	-1.79	-18.30	-.39	-.11		.02	.02	.024

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /----	BENDING STRESS Y	Z ----KSI----	Y SHEAR STRESS	Z SHEAR STRESS ----/	COMB. UNITY CHECK
812- 912	P2- 1	0.0	88.70	-509.47	-287.02	-.19	1.80	-19.75	.35	.24		.02	.02	.027
		8.1	88.70	-334.48	-268.94	-.19	1.80	-19.75	.35	.18		.02	.02	.024
		16.2	88.70	-159.49	-250.86	-.19	1.80	-19.75	.35	.12		.02	.02	.022
		24.3	88.70	15.50	-232.77	-.19	1.80	-19.75	.35	.10		.02	.02	.020
		32.4	88.70	190.49	-214.69	-.19	1.80	-19.75	.35	.12		.02	.02	.021
901- 902	169- 1	0.0	1.53	-6.45	-53.03	.06	.02	1.99	.06	.37		.02	.02	.018
		6.9	1.53	-5.00	-32.32	-.08	.02	1.99	.06	.36		.02	.02	.018
		13.7	1.53	-3.55	-20.34	-.21	.02	1.99	.06	.23		.03	.03	.012
		20.6	1.53	-2.10	2.92	-.35	.02	1.99	.06	.04		.04	.04	.005
		27.4	1.53	-.66	37.46	-.49	.02	1.99	.06	.41		.05	.05	.020
901- 904	169- 1	0.0	10.72	9.83	-29.91	.09	-.03	1.71	.44	.34		.02	.02	.035
		6.9	10.71	7.15	-31.23	-.06	-.03	1.71	.44	.35		.02	.02	.035
		13.7	10.70	4.47	-19.96	-.21	-.03	1.71	.44	.22		.03	.03	.030
		20.6	10.69	1.78	3.88	-.37	-.03	1.71	.44	.05		.04	.04	.022
		27.4	10.68	-.90	40.30	-.52	-.03	1.71	.44	.44		.05	.05	.039
901-1001	JL9- 1	0.0	-.23	18.49	-95.01	-2.87	.02	38.54	-.00	-.12		.11	.11	.005
		8.1	-.24	18.11	117.49	-1.50	-.02	38.54	-.00	-.15		.07	.07	.007
		16.2	-.25	14.19	197.58	-.15	-.06	38.54	-.00	-.25		.03	.03	.011
		24.3	-.25	7.71	146.98	1.19	-.08	38.54	-.00	-.19		.06	.06	.008
		32.4	-.25	-.35	-32.81	2.50	-.09	38.54	-.00	-.04		.10	.10	.002
901-1002	180- 1	0.0	-17.38	-30.43	10.80	.36	.34	2.86	-.63	-.28		.05	.05	.049
		10.5	-17.38	1.69	-21.51	.16	.17	2.86	-.63	-.18		.03	.03	.045
		21.1	-17.39	13.43	-24.50	-.04	.01	2.86	-.63	-.27		.02	.02	.049
		31.7	-17.39	4.20	-10.17	-.24	-.15	2.86	-.63	-.09		.03	.03	.041
		42.2	-17.39	-25.81	33.49	-.44	-.32	2.86	-.63	-.36		.05	.05	.053
901-1004	180- 1	0.0	18.22	22.64	30.42	.55	-.26	1.65	.66	.33		.05	.05	.044
		10.6	18.21	-5.70	-21.12	.27	-.14	1.65	.66	.18		.03	.03	.036
		21.1	18.19	-11.45	-37.26	-.01	.01	1.65	.66	.33		.01	.01	.045
		31.7	18.18	-.42	-17.97	-.29	.16	1.65	.66	.15		.03	.03	.037
		42.2	18.17	29.41	36.72	-.57	.31	1.65	.66	.40		.05	.05	.048
902- 903	169- 1	0.0	.81	-.99	25.17	.37	.03	-1.71	.03	.28		.04	.04	.013
		6.9	.81	1.82	.36	.23	.03	-1.71	.03	.02		.03	.03	.002
		13.7	.81	4.64	-13.18	.10	.03	-1.71	.03	.15		.02	.02	.008
		20.6	.81	7.45	-15.43	-.04	.03	-1.71	.03	.19		.01	.01	.009
		27.4	.81	10.27	-6.41	-.18	.03	-1.71	.03	.13		.02	.02	.007
902- 904	109- 1	0.0	-.01	1.85	1.54	.01	-.01	-.81	-.00	-.08		.02	.02	.003
		6.9	-.01	.94	.91	.01	-.01	-.81	-.00	-.04		.02	.02	.002
		13.7	-.01	.03	.27	.01	-.01	-.81	-.00	-.01		.02	.02	.000
		20.6	-.01	-.87	-.36	.01	-.01	-.81	-.00	-.03		.02	.02	.001
		27.4	-.01	-1.78	-.99	.01	-.01	-.81	-.00	-.07		.02	.02	.003

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
902- 905	109- 1	0.0	1.11	1.75	10.75	.19	-.01	.37	.09	.36		.04	.04	.020
		6.9	1.13	1.29	-.76	.09	-.01	.37	.09	.05		.02	.02	.007
		13.7	1.16	.63	-4.57	-.00	-.01	.37	.10	.16		.01	.01	.011
		20.6	1.18	.36	-.68	-.09	-.01	.37	.10	.03		.02	.02	.006
		27.4	1.21	-.10	10.91	-.19	-.01	.37	.10	.36		.04	.04	.020
903- 905	169- 1	0.0	-11.83	16.49	21.31	.08	-.05	.59	-.49	-.29		.01	.01	.048
		6.9	-11.83	12.18	14.77	.08	-.05	.59	-.49	-.21		.01	.01	.045
		13.7	-11.83	7.86	8.22	.08	-.05	.59	-.49	-.12		.01	.01	.041
		20.6	-11.83	3.54	1.67	.08	-.05	.59	-.49	-.04		.01	.01	.036
		27.4	-11.83	-.78	-4.87	.08	-.05	.59	-.49	-.05		.01	.01	.035
903-1002	180- 1	0.0	17.56	18.24	-43.96	-.61	-.16	-.83	.64	.41		.05	.05	.047
		10.6	17.62	1.69	13.23	-.30	-.10	-.83	.64	.11		.03	.03	.034
		21.1	17.64	-5.29	32.52	-.01	-.01	-.83	.64	.28		.00	.00	.042
		31.7	17.64	-.28	17.24	.25	.09	-.83	.64	.15		.02	.02	.036
		42.2	17.63	19.15	-29.26	.48	.22	-.83	.64	.30		.04	.04	.042
903-1003	309- 1	0.0	4.11	-152.72	102.65	1.59	2.35	-27.15	.06	.23		.09	.09	.013
		8.1	4.10	22.81	-4.02	.80	1.26	-27.15	.06	.03		.06	.06	.004
		16.2	4.08	93.82	-54.15	.23	.20	-27.15	.06	.14		.03	.03	.008
		24.3	4.08	62.98	-48.48	-.34	-.83	-27.15	.06	.10		.04	.04	.007
		32.4	4.07	-67.06	12.28	-.90	-1.84	-27.15	.06	.09		.08	.08	.006
903-1005	180- 1	0.0	33.10	38.03	28.24	.17	-.37	-4.47	1.20	.40		.05	.05	.073
		10.6	33.11	2.45	10.62	.11	-.19	-4.47	1.20	.09		.04	.04	.060
		21.1	33.12	-10.96	-.36	.06	-.02	-4.47	1.20	.09		.02	.02	.060
		31.7	33.13	-2.26	-4.70	.01	.16	-4.47	1.21	.04		.03	.03	.058
		42.2	33.14	28.59	-2.40	-.04	.33	-4.47	1.21	.25		.04	.04	.066
904- 905	109- 1	0.0	-1.13	-2.00	6.90	.13	.01	.33	-.09	-.24		.03	.03	.017
		6.9	-1.13	-1.42	-1.11	.06	.01	.33	-.09	-.06		.02	.02	.009
		13.7	-1.13	-.85	-3.47	-.01	.01	.33	-.09	-.12		.01	.01	.012
		20.6	-1.13	-.27	-.20	-.07	.01	.33	-.09	-.01		.02	.02	.007
		27.4	-1.13	.30	8.72	-.14	.01	.33	-.09	-.29		.03	.03	.019
904- 906	169- 1	0.0	11.36	-.37	32.41	.41	-.05	-2.13	.47	.35		.05	.05	.037
		6.9	11.35	-4.30	4.89	.26	-.04	-2.13	.47	.07		.03	.03	.025
		13.7	11.36	-6.85	-11.26	.13	-.02	-2.13	.47	.14		.02	.02	.028
		20.6	11.37	-6.53	-17.27	.02	.03	-2.13	.47	.20		.01	.01	.030
		27.4	11.39	-2.00	-14.35	-.08	.09	-2.13	.47	.16		.02	.02	.028
905- 906	169- 1	0.0	-10.37	-.38	14.75	.12	-.05	.43	-.43	-.16		.01	.01	.036
		6.9	-10.37	-4.58	4.47	.12	-.05	.43	-.43	-.07		.01	.01	.035
		13.7	-10.37	-8.78	-5.81	.12	-.05	.43	-.43	-.12		.01	.01	.036
		20.6	-10.37	-12.52	-16.10	.12	-.03	.43	-.43	-.22		.01	.01	.041
		27.4	-10.37	-15.43	-26.38	.12	.02	.43	-.43	-.32		.01	.01	.045

S T R A N   M E M B E R   D E T A I L   R E P O R T

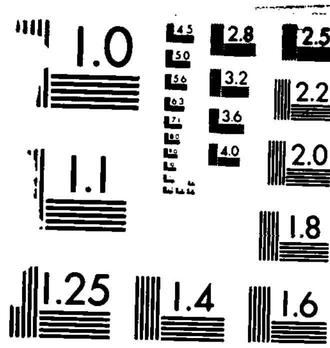
LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
905-1004	1BD- 1	0.0	-18.23	-11.80	-44.86	-.57	.05	1.46	-.66	-.40		.05	.05	.056
		10.6	-18.25	-4.75	12.00	-.72	.05	1.46	-.66	-.11		.03	.03	.044
		21.1	-18.26	-.04	33.78	-.02	.02	1.46	-.66	-.29		.01	.01	.051
		31.7	-18.29	-.04	18.30	.27	-.02	1.46	-.67	-.16		.03	.03	.046
		42.2	-18.27	-7.23	-34.47	.56	-.10	1.46	-.66	-.30		.05	.05	.052
906-1005	1BD- 1	0.0	-33.18	-29.63	12.24	.04	.32	-1.50	-1.21	-.27		.03	.03	.083
		10.6	-33.17	1.36	9.48	.01	.17	-1.50	-1.21	-.08		.02	.02	.075
		21.1	-33.18	11.18	6.73	.03	-.01	-1.50	-1.21	-.11		.01	.01	.076
		31.7	-33.20	-1.83	.94	.06	-.19	-1.50	-1.21	-.02		.02	.02	.072
		42.2	-33.22	-37.69	-7.96	.08	-.37	-1.50	-1.21	-.33		.03	.03	.085
905-1006	JL9- 1	0.0	-4.02	134.48	-.72	1.27	-2.37	-18.78	-.06	-.17		.09	.09	.010
		8.1	-4.00	-41.24	-92.55	.62	-1.25	-18.78	-.06	-.13		.05	.05	.008
		16.2	-3.98	-109.24	-121.18	-.05	-.16	-18.78	-.06	-.21		.02	.02	.012
		24.3	-3.97	-72.78	-86.69	-.68	.91	-18.78	-.06	-.14		.04	.04	.009
		32.4	-3.95	67.51	10.96	-1.33	1.97	-18.78	-.06	-.09		.08	.08	.006
1010- 910	P3- 1	0.0	-6.68	-116.41	-928.01	-2.20	.49	17.52	-.03	-.39		.02	.02	.015
		8.1	-6.68	-69.11	-714.07	-2.20	.49	17.52	-.03	-.30		.02	.02	.014
		16.2	-6.68	-21.81	-500.14	-2.20	.49	17.52	-.03	-.21		.02	.02	.010
		24.3	-6.68	25.49	-286.20	-2.20	.49	17.52	-.03	-.12		.02	.02	.006
		32.4	-6.68	72.80	-72.27	-2.20	.49	17.52	-.03	-.04		.02	.02	.003
1011- 911	P3- 1	0.0	-98.07	1027.46	531.48	1.66	-3.27	-18.36	-.39	-.48		.03	.03	.040
		8.1	-98.07	708.82	370.37	1.66	-3.27	-18.36	-.39	-.33		.03	.03	.033
		16.2	-98.07	390.18	209.26	1.66	-3.27	-18.36	-.39	-.18		.03	.03	.027
		24.3	-98.07	71.53	48.16	1.66	-3.27	-18.36	-.39	-.04		.03	.03	.021
		32.4	-98.07	-247.11	-112.95	1.66	-3.27	-18.36	-.39	-.11		.03	.03	.024
1012- 912	P3- 1	0.0	68.71	-959.90	297.93	.21	2.95	-19.75	.35	.42		.03	.03	.034
		8.1	68.71	-672.30	277.12	.21	2.95	-19.75	.35	.30		.03	.03	.029
		16.2	68.71	-384.70	256.31	.21	2.95	-19.75	.35	.19		.03	.03	.024
		24.3	68.71	-97.10	235.50	.21	2.95	-19.75	.35	.11		.03	.03	.021
		32.4	68.71	190.49	214.69	.21	2.95	-19.75	.35	.12		.03	.03	.021
[illegible]	[illegible]- 1	0.0	23.62	-39.00	-18.43	.53	.17	-2.76	.62	.25		.03	.03	.039
		[illegible]	23.62	-23.48	-38.49	.09	.17	-2.76	.62	.25		.02	.02	.039
		16.0	23.62	-7.16	-35.45	-.15	.17	-2.76	.62	.20		.02	.02	.037
		24.0	23.62	9.16	-9.32	-.39	.17	-2.76	.62	.07		.03	.03	.032
		[illegible]	23.62	25.48	39.91	-.63	.17	-2.76	.62	.26		.04	.04	.040
[illegible]		[illegible]	-22.08	36.93	-24.95	.21	-.13	-8.15	-.58	-.25		.04	.04	.051
		[illegible]	-22.09	24.13	-37.02	.04	-.13	-8.15	-.58	-.25		.03	.03	.051
		[illegible]	-22.10	11.33	-31.89	-.14	-.13	-8.15	-.58	-.19		.03	.03	.049
			-22.11	-1.46	-9.58	-.32	-.13	-8.15	-.58	-.05		.04	.04	.043
			-22.12	-14.26	29.92	-.50	-.13	-8.15	-.58	-.19		.05	.05	.049

AD-A165 651 FATIGUE ANALYSIS EAST COAST AIR COMBAT MANEUVERING RANGE OFFSHORE KITTY H.. (U) CREST ENGINEERING INC TULSA OK SEP 76 27-771-100 CHES/NAVFAC-FPO-7616 5/6

UNCLASSIFIED N62477-76-C-0179 F/G 13/13 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963 A

LOAD CONDITION NO. 6

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
1002-1003	200- 1	0.0	-.94	-16.69	27.48	.53	.12	9.43	-.02	-.18		.05	.05	.009
		8.0	-.94	-5.47	-11.75	.29	.12	9.43	-.02	-.07		.04	.04	.005
		16.0	-.94	5.75	-27.88	.05	.12	9.43	-.02	-.16		.03	.03	.008
		24.0	-.94	16.97	-20.91	-.19	.12	9.43	-.02	-.15		.04	.04	.008
		32.0	-.94	28.19	9.15	-.43	.12	9.43	-.02	-.17		.05	.05	.009
1002-1004	140- 1	0.0	.03	24.54	.43	.00	-.13	-3.81	.00	.46		.05	.05	.019
		8.0	.03	11.88	.28	.00	-.13	-3.81	.00	.22		.05	.05	.009
		16.0	.03	-.78	-.08	.00	-.13	-3.81	.00	.01		.05	.05	.001
		24.0	.03	-13.44	-.44	.00	-.13	-3.81	.00	.25		.05	.05	.011
		32.0	.03	-26.10	-.79	.00	-.13	-3.81	.00	.49		.05	.05	.021
1002-1005	140- 1	0.0	2.49	16.45	13.01	.21	-.06	1.62	.16	.39		.04	.04	.024
		8.0	2.52	10.44	-2.28	.10	-.06	1.62	.16	.20		.03	.03	.016
		16.0	2.55	4.44	-7.05	-.01	-.06	1.62	.16	.16		.02	.02	.014
		24.0	2.58	-1.56	-1.30	-.11	-.06	1.62	.16	.04		.03	.03	.009
		32.0	2.61	-7.56	14.97	-.22	-.06	1.62	.16	.31		.04	.04	.021
1003-1005	200- 1	0.0	-24.67	59.22	37.95	.13	-.25	-2.18	-.65	-.39		.02	.02	.062
		8.0	-24.67	35.46	25.13	.13	-.25	-2.18	-.65	-.24		.02	.02	.056
		16.0	-24.67	11.70	12.30	.13	-.25	-2.18	-.65	-.09		.02	.02	.050
		24.0	-24.67	-12.06	-.53	.13	-.25	-2.18	-.65	-.07		.02	.02	.048
		32.0	-24.67	-35.82	-13.35	.13	-.25	-2.18	-.65	-.21		.02	.02	.055
1004-1005	140- 1	0.0	-2.45	-16.65	9.56	.16	.07	2.52	-.15	-.36		.04	.04	.024
		8.0	-2.45	-10.35	-1.62	.08	.07	2.52	-.15	-.20		.04	.04	.017
		16.0	-2.45	-4.04	-5.09	-.00	.07	2.52	-.15	-.12		.03	.03	.014
		24.0	-2.45	2.26	-.87	-.08	.07	2.52	-.15	-.05		.04	.04	.011
		32.0	-2.45	8.56	11.06	-.16	.07	2.52	-.15	-.26		.05	.05	.020
1004-1006	200- 1	0.0	3.22	18.24	14.60	.38	-.12	7.63	.08	.15		.04	.04	.010
		8.0	3.21	6.79	-9.56	.20	-.12	7.63	.08	.07		.03	.03	.007
		16.0	3.20	-4.65	-20.61	.03	-.12	7.63	.08	.12		.03	.03	.009
		24.0	3.19	-16.10	-14.48	-.15	-.12	7.63	.08	.12		.03	.03	.009
		32.0	3.18	-27.55	8.84	-.33	-.12	7.63	.08	.16		.04	.04	.011
1005-1006	200- 1	0.0	21.82	24.53	10.44	.10	-.22	-.35	.57	.15		.01	.01	.033
		8.0	21.82	3.84	.54	.10	-.22	-.35	.57	.02		.01	.01	.027
		16.0	21.82	-16.84	-9.36	.10	-.22	-.35	.57	.11		.01	.01	.031
		24.0	21.82	-37.53	-19.26	.10	-.22	-.35	.57	.24		.01	.01	.036
		32.0	21.82	-58.21	-29.17	.10	-.22	-.35	.57	.36		.01	.01	.042

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
101- 102	W18- 1	0.0	.06	.23	6.89	.06	-.01	-.00	.00	.00	.64	.01	.00	.030
		3.6	.06	-.04	4.43	.06	-.01	-.00	.00	-.00	.41	.01	.00	.019
		7.3	.06	-.32	1.97	.06	-.01	-.00	.00	-.00	.18	.01	.00	.009
		10.9	.06	-.59	-.49	.06	-.01	-.00	.00	-.01	-.05	.01	.00	.003
		14.5	.06	-.86	-2.94	.06	-.01	-.00	.00	-.01	-.27	.01	.00	.013
101- 104	W18- 1	0.0	-.03	-.27	6.94	.06	.00	.00	-.00	-.00	.65	.01	.00	.030
		3.6	-.03	-.11	4.44	.06	.00	.00	-.00	-.00	.41	.01	.00	.019
		7.2	-.03	.04	1.95	.06	.00	.00	-.00	.00	.18	.01	.00	.009
		10.9	-.03	.20	-.54	.06	.00	.00	-.00	.00	-.05	.01	.00	.003
		14.5	-.03	.35	-3.03	.06	.00	.00	-.00	.00	-.28	.01	.00	.013
101- 201	DKL- 1	0.0	-.00	.23	.09	-.10	.11	13.83	-.00	-.00		.01	.01	.000
		3.8	-.00	5.21	4.41	-.10	.11	13.83	-.00	-.01		.01	.01	.000
		7.5	-.00	10.19	8.73	-.10	.11	13.83	-.00	-.02		.01	.01	.001
		1..3	-.00	15.16	13.05	-.10	.11	13.83	-.00	-.03		.01	.01	.001
		15.0	-.00	20.14	17.37	-.10	.11	13.83	-.00	-.04		.01	.01	.002
102- 103	W18- 1	0.0	.12	-.86	-2.55	-.04	-.01	.00	.01	-.01	-.24	.00	.00	.012
		3.6	.12	-1.16	-.88	-.04	-.01	.00	.01	-.01	-.08	.00	.00	.005
		7.3	.12	-1.45	.80	-.04	-.01	.00	.01	-.02	.07	.00	.00	.004
		10.9	.12	-1.75	2.47	-.04	-.01	.00	.01	-.02	.23	.00	.00	.012
		14.5	.12	-2.04	4.15	-.04	-.01	.00	.01	-.02	.39	.00	.00	.019
102- 104	W08- 1	0.0	.00	-.00	-.44	-.00	.00	-.00	.00	-.00	-.08	.00	.00	.004
		3.6	.00	.01	-.22	-.00	.00	-.00	.00	.00	-.04	.00	.00	.002
		7.2	.00	.01	-.01	-.00	.00	-.00	.00	.00	-.00	.00	.00	.000
		10.9	.00	.02	.20	-.00	.00	-.00	.00	.00	.04	.00	.00	.002
		14.5	.00	.03	.42	-.00	.00	-.00	.00	.00	.07	.00	.00	.004
102- 105	W08- 1	0.0	-.11	-.00	.05	.00	.00	.00	-.02	-.00	.01	.00	.00	.002
		3.6	-.11	.01	-.10	.00	.00	.00	-.02	.00	-.02	.00	.00	.002
		7.2	-.11	.03	-.24	.00	.00	.00	-.02	.00	-.04	.00	.00	.003
		10.9	-.11	.04	-.39	.00	.00	.00	-.02	.00	-.07	.00	.00	.005
		14.5	-.11	.06	-.54	.00	.00	.00	-.02	.00	-.10	.00	.00	.006
103- 105	W18- 1	0.0	.06	-1.24	-3.10	-.02	.01	-.00	.00	-.01	-.29	.00	.00	.014
		3.6	.06	-.97	-2.22	-.02	.01	-.00	.00	-.01	-.21	.00	.00	.010
		7.2	.06	-.69	-1.34	-.02	.01	-.00	.00	-.01	-.12	.00	.00	.006
		10.9	.06	-.42	-.45	-.02	.01	-.00	.00	-.00	-.04	.00	.00	.002
		14.5	.06	-.15	.43	-.02	.01	-.00	.00	-.00	.04	.00	.00	.002
103- 203	DKL- 1	0.0	.01	1.08	2.66	.17	-.01	-7.25	.00	.00		.01	.01	.000
		3.8	.01	.84	-4.90	.17	-.01	-7.25	.00	.01		.01	.01	.000
		7.5	.01	.60	-12.46	.17	-.01	-7.25	.00	.02		.01	.01	.001
		11.3	.01	.37	-20.03	.17	-.01	-7.25	.00	.03		.01	.01	.001
		15.0	.01	.13	-27.59	.17	-.01	-7.25	.00	.04		.01	.01	.002

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
104- 105	W08- 1	0.0	.11	-.03	.09	.00	-.00	.00	.01	-.00	.02	.00	.00	.001
		3.6	.11	-.03	-.07	.00	-.00	.00	.01	-.00	-.01	.00	.00	.001
		7.3	.11	-.04	-.23	.00	-.00	.00	.01	-.00	-.04	.00	.00	.003
		10.9	.11	-.05	-.40	.00	-.00	.00	.01	-.00	-.07	.00	.00	.004
		14.5	.11	-.06	-.56	.00	-.00	.00	.01	-.00	-.10	.00	.00	.005
104- 106	W18- 1	0.0	-.08	.38	-2.70	-.04	.00	.00	-.00	.00	-.25	.00	.00	.012
		3.6	-.08	.55	-.88	-.04	.00	.00	-.00	.01	-.08	.00	.00	.004
		7.3	-.08	.72	.94	-.04	.00	.00	-.00	.01	.09	.00	.00	.005
		10.9	-.08	.89	2.76	-.04	.00	.00	-.00	.01	.26	.00	.00	.013
		14.5	-.08	1.06	4.58	-.04	.00	.00	-.00	.01	.43	.00	.00	.021
105- 106	W18- 1	0.0	-.05	-.09	-.66	-.02	.01	-.00	-.00	-.00	-.06	.00	.00	.003
		3.6	-.05	.19	.40	-.02	.01	-.00	-.00	.00	.04	.00	.00	.002
		7.3	-.05	.48	1.46	-.02	.01	-.00	-.00	.01	.14	.00	.00	.007
		10.9	-.05	.76	2.51	-.02	.01	-.00	-.00	.01	.23	.00	.00	.011
		14.5	-.05	1.04	3.57	-.02	.01	-.00	-.00	.01	.33	.00	.00	.016
106- 206	DRL- 1	0.0	.03	3.64	2.31	-.08	-.20	-11.64	.00	.01		.01	.01	.000
		3.8	.03	-5.24	5.71	-.08	-.20	-11.64	.00	.01		.01	.01	.001
		7.5	.03	-14.32	9.12	-.08	-.20	-11.64	.00	.03		.01	.01	.001
		11.3	.03	-23.40	12.52	-.08	-.20	-11.64	.00	.04		.01	.01	.002
		15.0	.03	-32.48	15.92	-.08	-.20	-11.64	.00	.06		.01	.01	.002
201- 202	W18- 1	0.0	2.23	.70	7.28	.06	-.00	-.00	.14	.01	.68	.01	.00	.036
		3.6	2.23	.53	4.67	.06	-.00	-.00	.14	.01	.44	.01	.00	.027
		7.3	2.23	.35	2.06	.06	-.00	-.00	.14	.00	.19	.01	.00	.015
		10.9	2.23	.18	-.56	.06	-.00	-.00	.14	.00	-.05	.01	.00	.009
		14.5	2.23	.01	-3.17	.06	-.00	-.00	.14	.00	-.30	.01	.00	.020
201- 204	W18- 1	0.0	-.34	.39	7.41	.06	-.01	-.00	-.02	.00	.69	.01	.00	.033
		3.6	-.34	.16	4.73	.06	-.01	-.00	-.02	.00	.44	.01	.00	.022
		7.2	-.34	-.07	2.04	.06	-.01	-.00	-.02	-.00	.19	.01	.00	.010
		10.9	-.34	-.30	-.65	.06	-.01	-.00	-.02	-.00	-.06	.01	.00	.004
		14.5	-.34	-.53	-3.33	.06	-.01	-.00	-.02	-.01	-.31	.01	.00	.016
201- 301	DRL- 1	0.0	1.24	15.64	19.74	.24	.62	64.46	.01	.04		.06	.06	.002
		3.8	1.24	43.44	8.79	.24	.62	64.46	.01	.07		.06	.06	.004
		7.5	1.24	71.24	-2.15	.24	.62	64.46	.01	.11		.06	.06	.005
		11.3	1.24	99.05	-13.10	.24	.62	64.46	.01	.16		.06	.06	.007
		15.0	1.24	126.85	-24.04	.24	.62	64.46	.01	.20		.06	.06	.009
201- 303	12D- 1	0.0	-2.77	-2.75	18.12	.03	.02	-1.39	-.14	-.32		.02	.02	.022
		8.2	-2.77	-.49	15.52	.03	.02	-1.39	-.14	-.27		.02	.02	.020
		16.3	-2.77	1.75	12.92	.03	.02	-1.39	-.14	-.23		.02	.02	.019
		24.5	-2.77	4.00	10.32	.03	.02	-1.39	-.14	-.20		.02	.02	.017
		32.6	-2.77	6.24	7.72	.03	.02	-1.39	-.14	-.17		.02	.02	.016

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT Z IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
202- 203	W18- 1	0.0	2.29	.05	-2.75	-.04	-.00	-.00	.14	.00	-.24	.00	.00	.016
		3.6	2.29	-.12	-.96	-.04	-.00	-.00	.14	-.00	-.09	.00	.00	.011
		7.3	2.29	-.29	.83	-.04	-.00	-.00	.14	-.00	.08	.00	.00	.010
		10.9	2.29	-.46	2.62	-.04	-.00	-.00	.14	-.01	.24	.00	.00	.018
		14.5	2.29	-.63	4.41	-.04	-.00	-.00	.14	-.01	.41	.00	.00	.026
202- 204	W08- 1	0.0	.00	.04	-.48	-.01	-.00	.00	.00	.00	-.09	.00	.00	.004
		3.6	.00	.03	-.24	-.01	-.00	.00	.00	.00	-.04	.00	.00	.002
		7.2	.00	.02	-.01	-.01	-.00	.00	.00	.00	-.00	.00	.00	.000
		10.9	.00	.01	.23	-.01	-.00	.00	.00	.00	.04	.00	.00	.002
		14.5	.00	.00	.46	-.01	-.00	.00	.00	.00	.08	.00	.00	.004
202- 205	W08- 1	0.0	-.12	-.04	.06	.00	.00	.00	-.02	-.00	.01	.00	.00	.002
		3.6	-.12	-.03	-.10	.00	.00	.00	-.02	-.00	-.02	.00	.00	.002
		7.2	-.12	-.03	-.27	.00	.00	.00	-.02	-.00	-.05	.00	.00	.004
		10.9	-.12	-.02	-.44	.00	.00	.00	-.02	-.00	-.08	.00	.00	.005
		14.5	-.12	-.02	-.60	.00	.00	.00	-.02	-.00	-.11	.00	.00	.006
203- 205	W18- 1	0.0	.52	.41	-3.39	-.02	-.00	-.00	.03	.00	-.32	.00	.00	.016
		3.6	.52	.26	-2.41	-.02	-.00	-.00	.03	.00	-.22	.00	.00	.012
		7.2	.52	.10	-1.42	-.02	-.00	-.00	.03	.00	-.13	.00	.00	.008
		10.9	.52	-.05	-.44	-.02	-.00	-.00	.03	-.00	-.04	.00	.00	.003
		14.5	.52	-.20	.54	-.02	-.00	-.00	.03	-.00	.05	.00	.00	.004
203- 303	DKL- 1	0.0	2.00	-3.65	-14.62	.95	2.93	-34.76	.02	.02		.09	.09	.002
		3.8	2.00	128.09	-57.55	.95	2.93	-34.76	.02	.22		.09	.09	.010
		7.5	2.00	259.84	-100.48	.95	2.93	-34.76	.02	.44		.09	.09	.019
		11.3	2.00	391.58	-143.40	.95	2.93	-34.76	.02	.65		.09	.09	.028
		15.0	2.00	523.33	-186.33	.95	2.93	-34.76	.02	.87		.09	.09	.038
203- 306	12U- 1	0.0	-4.26	-3.30	-23.29	-.12	.03	-2.12	-.22	-.41		.03	.03	.031
		8.2	-4.26	-.68	-11.73	-.12	.03	-2.12	-.22	-.21		.03	.03	.022
		16.3	-4.26	1.95	-.17	-.12	.03	-2.12	-.22	-.03		.03	.03	.015
		24.5	-4.26	4.57	11.39	-.12	.03	-2.12	-.22	-.22		.03	.03	.023
		32.6	-4.26	7.20	22.95	-.12	.03	-2.12	-.22	-.42		.03	.03	.032
204- 205	W08- 1	0.0	.11	-.00	.10	.00	.00	-.00	.02	-.00	.02	.00	.00	.002
		3.6	.11	.00	-.08	.00	.00	-.00	.02	.00	-.01	.00	.00	.001
		7.3	.11	.01	-.26	.00	.00	-.00	.02	.00	-.05	.00	.00	.003
		10.9	.11	.01	-.44	.00	.00	-.00	.02	.00	-.08	.00	.00	.004
		14.5	.11	.02	-.62	.00	.00	-.00	.02	.00	-.11	.00	.00	.006
204- 206	W18- 1	0.0	-.39	-.53	-2.97	-.05	-.01	-.00	-.02	-.01	-.28	.01	.00	.014
		3.6	-.39	-.78	-.99	-.05	-.01	-.00	-.02	-.01	-.09	.01	.00	.006
		7.3	-.39	-1.02	.99	-.05	-.01	-.00	-.02	-.01	.09	.01	.00	.006
		10.9	-.39	-1.27	2.97	-.05	-.01	-.00	-.02	-.01	.28	.01	.00	.015
		14.5	-.39	-1.51	4.94	-.05	-.01	-.00	-.02	-.02	.46	.01	.00	.023

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
205- 206	W18- 1	0.0	.39	-.22	-.68	-.03	-.00	.00	.02	-.00	-.06	.00	.00	.004
		3.6	.39	-.36	.44	-.03	-.00	.00	.02	-.00	.04	.00	.00	.003
		7.3	.39	-.51	1.57	-.03	-.00	.00	.02	-.01	.15	.00	.00	.008
		10.9	.39	-.65	2.69	-.03	-.00	.00	.02	-.01	.25	.00	.00	.013
		14.5	.39	-.79	3.81	-.03	-.00	.00	.02	-.01	.36	.00	.00	.018
205- 301	120- 1	0.0	3.28	1.13	-.50	.06	-.01	4.49	.17	.02		.05	.05	.009
		8.2	3.28	-.09	-6.39	.06	-.01	4.49	.17	.11		.05	.05	.013
		16.3	3.28	-1.31	-12.28	.06	-.01	4.49	.17	.22		.05	.05	.017
		24.5	3.28	-2.52	-18.17	.06	-.01	4.49	.17	.32		.05	.05	.021
		32.6	3.28	-3.74	-24.06	.06	-.01	4.49	.17	.43		.05	.05	.026
206- 306	DKL- 1	0.0	-1.48	-31.63	18.97	.97	2.29	-22.90	-.02	-.06		.07	.07	.003
		3.8	-1.48	71.56	-24.81	.97	2.29	-22.90	-.02	-.12		.07	.07	.006
		7.5	-1.48	174.74	-68.58	.97	2.29	-22.90	-.02	-.29		.07	.07	.013
		11.3	-1.48	277.92	-112.36	.97	2.29	-22.90	-.02	-.47		.07	.07	.021
		15.0	-1.48	381.10	-156.14	.97	2.29	-22.90	-.02	-.64		.07	.07	.028
301- 303	125- 1	0.0	-4.65	-3.75	32.78	.10	.03	2.85	-.24	-.58		.04	.04	.039
		7.3	-4.65	-.91	24.09	.10	.03	2.85	-.24	-.42		.04	.04	.032
		14.5	-4.65	1.93	15.39	.10	.03	2.85	-.24	-.27		.04	.04	.026
		21.7	-4.65	4.77	6.69	.10	.03	2.85	-.24	-.14		.04	.04	.020
		29.0	-4.65	7.62	-2.01	.10	.03	2.85	-.24	-.14		.04	.04	.020
301- 306	125- 1	0.0	-4.46	-12.05	28.42	.07	.08	-.16	-.23	-.54		.01	.01	.037
		7.2	-4.46	-4.95	22.08	.07	.08	-.16	-.23	-.40		.01	.01	.030
		14.5	-4.46	2.15	15.74	.07	.08	-.16	-.23	-.28		.01	.01	.025
		21.7	-4.46	9.25	9.41	.07	.08	-.16	-.23	-.23		.01	.01	.023
		29.0	-4.46	16.35	3.07	.07	.08	-.16	-.23	-.29		.01	.01	.026
301- 401	DKL- 1	0.0	-3.83	311.24	99.92	.08	.21	-17.32	-.04	-.51		.02	.02	.024
		7.1	-3.83	329.55	93.02	.08	.21	-17.32	-.04	-.54		.02	.02	.025
		14.2	-3.83	347.86	86.12	.08	.21	-17.32	-.04	-.56		.02	.02	.026
		21.4	-3.83	182.71	-26.68	2.79	-4.47	-17.32	-.04	-.29		.13	.13	.014
		28.5	-3.83	-398.62	-381.04	5.45	-9.03	-17.32	-.04	-.86		.25	.25	.038
303- 306	125- 1	0.0	5.24	-18.14	-31.26	-.18	.10	1.19	.27	.64		.03	.03	.039
		7.2	5.24	-9.68	-15.45	-.18	.10	1.19	.27	.32		.03	.03	.026
		14.5	5.24	-1.22	.36	-.18	.10	1.19	.27	.02		.03	.03	.014
		21.7	5.24	7.24	16.16	-.18	.10	1.19	.27	.31		.03	.03	.026
		29.0	5.24	15.71	31.97	-.18	.10	1.19	.27	.63		.03	.03	.039
303- 403	DKL- 1	0.0	.77	544.80	-192.15	-3.37	-1.64	-71.50	.01	.90		.14	.14	.038
		7.1	.77	404.30	95.69	-3.37	-1.64	-71.50	.01	.65		.14	.14	.028
		14.2	.77	263.05	383.10	-3.18	-1.96	-71.50	.01	.73		.14	.14	.031
		21.4	.77	-139.01	520.65	-.11	-7.33	-71.50	.01	.84		.22	.22	.036
		28.5	.77	-969.32	411.94	2.59	-11.99	-71.50	.01	1.65		.33	.33	.070

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	Z	Y SHEAR STRESS	Z SHEAR STRESS ---KSI---/	COMB. UNITY CHECK
306- 406	DRL- 1	0.0	-3.64	410.08	-144.46	-2.19	-.49	-79.31	-.04	-.68		.11	.11	.031
		7.1	-3.64	368.00	42.59	-2.19	-.49	-79.31	-.04	-.58		.11	.11	.026
		14.2	-3.64	325.92	229.65	-2.19	-.49	-79.31	-.04	-.62		.11	.11	.028
		21.4	-3.64	214.48	376.48	-.59	-3.25	-79.31	-.04	-.68		.13	.13	.031
		28.5	-3.64	-249.57	319.00	1.87	-7.51	-79.31	-.04	-.63		.23	.23	.029
401- 501	JL4- 1	0.0	-16.12	-55.92	40.57	-25.17	-3.14	128.24	-.06	-.02		.22	.22	.004
		1.1	-16.12	-98.74	393.74	-26.44	-3.12	128.24	-.06	-.14		.23	.23	.009
		2.3	-16.12	-141.21	764.13	-27.68	-3.09	128.24	-.06	-.27		.24	.24	.014
		3.4	-16.11	-183.33	1151.38	-28.90	-3.06	128.24	-.06	-.41		.25	.25	.020
		4.6	-16.11	-225.05	1555.18	-30.09	-3.03	128.24	-.06	-.55		.26	.26	.026
401- 510	P1- 1	0.0	12.32	-71.84	491.35	14.62	3.63	-56.98	.06	.23		.15	.15	.012
		1.1	12.32	-22.01	290.81	14.62	3.63	-56.98	.06	.14		.15	.15	.008
		2.3	12.32	27.83	90.27	14.62	3.63	-56.98	.06	.04		.15	.15	.004
		3.4	12.32	77.67	-110.27	14.62	3.63	-56.98	.06	.06		.15	.15	.005
		4.6	12.32	127.50	-310.81	14.62	3.63	-56.98	.06	.16		.15	.15	.009
403- 503	JL4- 1	0.0	-665.61	-47.01	-556.23	15.32	17.39	-51.09	-2.62	-.20		.19	.19	.130
		1.1	-665.60	198.66	-770.09	15.93	18.50	-51.09	-2.62	-.28		.20	.20	.134
		2.3	-665.60	459.35	-992.29	16.53	19.59	-51.09	-2.62	-.39		.21	.21	.138
		3.4	-665.60	734.77	-1222.64	17.12	20.65	-51.09	-2.62	-.50		.22	.22	.143
		4.6	-665.60	1024.62	-1460.94	17.69	21.69	-51.09	-2.62	-.63		.23	.23	.148
403- 511	P1- 1	0.0	672.95	599.24	-770.81	-3.42	1.91	184.02	3.04	.46		.08	.08	.160
		1.1	672.95	625.50	-723.86	-3.42	1.91	184.02	3.04	.45		.08	.08	.160
		2.3	672.95	651.76	-676.92	-3.42	1.91	184.02	3.04	.44		.08	.08	.159
		3.4	672.95	678.02	-629.97	-3.42	1.91	184.02	3.04	.43		.08	.08	.159
		4.6	672.95	704.28	-583.02	-3.42	1.91	184.02	3.04	.43		.08	.08	.159
406- 506	JL4- 1	0.0	695.05	7.97	223.93	5.74	-11.34	-209.60	2.73	.08		.14	.14	.130
		1.1	695.05	-154.59	141.17	6.36	-12.41	-209.60	2.73	.07		.15	.15	.130
		2.3	695.05	-331.75	49.98	6.97	-13.47	-209.60	2.73	.12		.16	.16	.132
		3.4	695.05	-523.24	-49.49	7.57	-14.51	-209.60	2.73	.19		.17	.17	.134
		4.6	695.04	-728.76	-157.07	8.15	-15.52	-209.60	2.73	.26		.17	.17	.138
405- 512	P1- 1	0.0	-699.87	-257.55	103.83	-3.86	4.27	183.78	-3.16	-.13		.10	.10	.153
		1.1	-699.87	-198.95	156.81	-3.86	4.27	183.78	-3.16	-.12		.10	.10	.153
		2.3	-699.87	-140.35	209.79	-3.86	4.27	183.78	-3.16	-.12		.10	.10	.152
		3.4	-699.87	-81.75	262.76	-3.86	4.27	183.78	-3.16	-.13		.10	.10	.153
		4.6	-699.87	-23.16	315.74	-3.86	4.27	183.78	-3.16	-.15		.10	.10	.154
501- 502	165- 1	0.0	12.47	17.50	180.52	-.03	-.04	-20.35	.41	1.62		.09	.09	.087
		3.8	12.47	14.02	159.58	.95	-.10	-20.35	.41	1.43		.15	.15	.079
		7.6	12.47	8.16	93.88	1.94	-.15	-20.35	.41	.84		.22	.22	.055
		11.4	12.47	.57	-16.57	2.92	-.18	-20.35	.41	.15		.29	.29	.025
		15.1	12.47	-7.67	-171.78	3.91	-.19	-20.35	.41	1.54		.35	.35	.084

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
501- 504	105- 1	0.0	-64.31	-128.71	180.99	.17	.98	-.72	-2.13	-1.99		.07	.07	.212
		3.8	-64.32	-86.11	151.18	1.14	.89	-.72	-2.13	-1.56		.10	.10	.174
		7.6	-64.33	-47.61	77.40	2.11	.79	-.72	-2.13	-.81		.15	.15	.152
		11.4	-64.34	-14.08	-40.35	3.08	.67	-.72	-2.13	-.38		.21	.21	.134
		15.1	-64.35	12.43	-202.08	4.04	.52	-.72	-2.13	-1.81		.27	.27	.194
501- 601	JL5- 1	0.0	-53.91	-245.19	993.40	31.66	7.15	225.41	-.38	-.64		.52	.52	.045
		1.5	-53.90	-114.46	430.09	30.10	7.18	225.41	-.38	-.28		.50	.50	.029
		3.0	-53.90	16.95	-105.13	28.58	7.22	225.41	-.38	-.07		.48	.48	.020
		4.6	-53.89	149.02	-612.99	27.10	7.26	225.41	-.38	-.40		.46	.46	.034
		6.1	-53.89	281.74	-1094.19	25.66	7.29	225.41	-.38	-.71		.44	.44	.047
501- 622	200- 1	0.0	66.72	246.26	-464.86	-6.21	-2.98	-26.04	1.75	2.94		.43	.43	.295
		5.1	66.72	79.48	-130.76	-4.72	-2.46	-26.04	1.75	.86		.35	.35	.117
		10.2	66.73	-54.35	115.74	-3.28	-1.91	-26.04	1.75	.71		.27	.27	.111
		15.3	66.73	-153.51	272.11	-1.91	-1.33	-26.04	1.75	1.75		.20	.20	.155
		20.4	66.73	-217.82	348.78	-.61	-.77	-26.04	1.75	2.30		.12	.12	.178
502- 503	105- 1	0.0	19.30	-3.75	-111.26	-2.76	-.51	14.87	.64	1.00		.25	.25	.072
		3.8	19.30	-27.02	-8.17	-1.78	-.51	14.87	.64	.25		.19	.19	.040
		7.6	19.30	-49.56	50.17	-.79	-.48	14.87	.64	.63		.13	.13	.056
		11.4	19.30	-70.46	63.76	.19	-.44	14.87	.64	.85		.10	.10	.055
		15.1	19.30	-88.82	32.58	1.18	-.37	14.87	.64	.85		.15	.15	.055
502- 504	105- 1	0.0	1.16	-16.09	-11.74	-.10	.11	5.36	.10	.67		.11	.11	.033
		3.8	1.16	-9.60	-7.31	-.10	.17	5.36	.10	.41		.12	.12	.022
		7.6	1.16	-1.30	-2.87	-.10	.21	5.36	.10	.11		.13	.13	.009
		11.4	1.16	8.92	1.56	-.10	.24	5.36	.10	.30		.13	.13	.017
		15.2	1.16	20.37	5.99	-.10	.26	5.36	.10	.71		.14	.14	.034
502- 505	105- 1	0.0	-9.69	-19.86	-48.78	-1.52	.22	-2.79	-.61	-1.76		.31	.31	.118
		3.8	-9.68	-10.82	2.78	-.74	.18	-2.79	-.61	-.37		.18	.18	[illegible]
		7.6	-9.66	-3.92	18.88	.04	.13	-2.79	-.61	-.64		.07	.07	.071
		11.4	-9.65	.40	-.46	.82	.06	-2.79	-.61	-.02		.18	.18	.045
		15.2	-9.64	1.71	-55.26	1.59	-.01	-2.79	-.61	-1.85		.31	.31	.172
503- 505	105- 1	0.0	42.01	-142.56	-101.69	-.60	.62	-12.19	1.59	1.57		.11	.11	.130
		3.8	42.01	-111.97	-74.22	-.60	.73	-12.19	1.59	1.20		.12	.12	.115
		7.6	42.01	-76.25	-46.75	-.60	.84	-12.19	1.59	.80		.12	.12	.098
		11.4	42.01	-35.32	-19.28	-.60	.96	-12.19	1.59	.36		.13	.13	[illegible]
		15.1	42.01	10.25	8.18	-.60	1.05	-12.19	1.59	.12		.13	.13	.069
503- 603	JL5- 1	0.0	-550.97	1127.35	-1240.59	-22.60	-17.86	-391.44	-3.65	-1.05		.53	.53	.223
		1.5	-550.97	813.83	-831.41	-22.05	-16.51	-391.44	-3.65	-.73		.51	.51	.209
		3.0	-550.97	524.71	-435.70	-21.33	-15.19	-391.44	-3.65	-.43		.49	.49	.196
		4.6	-550.97	259.26	-53.07	-20.62	-13.91	-391.44	-3.65	-.17		.47	.47	.186
		6.1	-550.97	16.92	316.83	-19.93	-12.66	-391.44	-3.65	-.20		.45	.45	[illegible]

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
503- 625	200- 1	0.0	-142.57	-376.14	-201.48	-1.03	3.64	-16.97	-3.75	-2.39		.25	.25	.274
		5.1	-142.58	-174.57	-141.59	-.94	2.99	-16.97	-3.75	-1.26		.21	.21	.233
		10.1	-142.58	-13.29	-86.89	-.86	2.31	-16.97	-3.75	-.49		.18	.18	.205
		15.2	-142.58	106.07	-37.02	-.78	1.61	-16.97	-3.75	-.63		.14	.14	.210
		20.3	-142.57	181.86	8.34	-.71	.88	-16.97	-3.75	-1.02		.11	.11	.224
504- 505	105- 1	0.0	8.32	6.19	-35.06	-1.38	.17	-2.51	.70	1.19		.27	.27	.082
		3.8	8.32	10.80	10.26	-.62	.03	-2.51	.70	.50		.15	.15	.053
		7.6	8.32	9.37	21.11	.14	-.09	-2.51	.70	.77		.07	.07	.065
		11.4	8.32	2.78	-2.52	.90	-.20	-2.51	.70	.13		.20	.20	.058
		15.2	8.32	-8.12	-60.65	1.66	-.28	-2.51	.70	2.05		.32	.32	.118
504- 506	165- 1	0.0	-69.20	17.04	-161.03	-3.50	.61	26.23	-2.29	-1.45		.35	.35	.188
		3.8	-69.21	41.03	-23.96	-2.54	.45	26.23	-2.29	-.43		.29	.29	.145
		7.6	-69.21	57.27	69.69	-1.59	.27	26.23	-2.29	-.81		.22	.22	.161
		11.4	-69.22	64.90	120.52	-.65	.07	26.23	-2.29	-1.23		.16	.16	.179
		15.2	-69.21	63.06	129.12	.27	-.15	26.23	-2.29	-1.29		.14	.14	.181
505- 506	165- 1	0.0	30.22	10.57	-107.70	-1.75	.76	-6.78	1.00	.97		.16	.16	.087
		3.8	30.22	46.49	-28.06	-1.75	.82	-6.78	1.00	.49		.16	.16	.067
		7.6	30.22	84.63	51.58	-1.75	.86	-6.78	1.00	.89		.16	.16	.084
		11.4	30.22	124.49	131.21	-1.75	.89	-6.78	1.00	1.62		.16	.16	.115
		15.2	30.22	165.36	210.85	-1.75	.90	-6.78	1.00	2.40		.16	.16	.147
506- 606	JLS- 1	0.0	644.74	-121.05	87.49	-3.96	10.45	-43.42	4.51	.09		.17	.17	.213
		1.5	644.75	57.54	152.69	-3.19	9.12	-43.42	4.51	.10		.15	.15	.213
		3.0	644.75	212.23	204.08	-2.44	7.83	-43.42	4.51	.18		.13	.13	.217
		4.6	644.75	343.69	242.00	-1.71	6.58	-43.42	4.51	.26		.11	.11	.220
		6.1	644.75	452.56	266.80	-1.01	5.36	-43.42	4.51	.33		.09	.09	.223
506- 624	200- 1	0.0	68.11	216.85	601.44	6.98	-1.63	35.07	2.32	3.58		.48	.48	.258
		5.1	68.10	123.49	224.66	5.44	-1.43	35.07	2.32	1.43		.39	.39	.166
		10.1	68.10	43.25	-60.54	3.97	-1.20	35.07	2.32	.42		.32	.32	.125
		15.2	68.09	-22.17	-258.62	2.57	-.95	35.07	2.32	1.45		.24	.24	.168
		20.2	68.10	-72.24	-373.22	1.22	-.70	35.07	2.32	2.13		.17	.17	.197
510- 710	P1- 1	0.0	12.34	129.49	-310.03	8.11	1.80	-56.76	.06	.16		.09	.09	.009
		6.3	12.34	266.66	-926.67	8.11	1.80	-56.76	.06	.45		.09	.09	.022
		12.7	12.34	403.82	-1543.32	8.11	1.80	-56.76	.06	.75		.09	.09	.034
		19.0	12.34	540.98	-2159.96	8.11	1.80	-56.76	.06	1.04		.09	.09	.046
		25.3	12.34	678.15	-2776.60	8.11	1.80	-56.76	.06	1.34		.09	.09	.059
511- 711	P1- 1	0.0	672.97	700.83	-587.34	-10.30	-10.17	183.46	3.04	.43		.17	.17	.159
		6.3	672.97	-72.09	195.67	-10.30	-10.17	183.46	3.04	.10		.17	.17	.145
		12.7	672.97	-845.01	978.69	-10.30	-10.17	183.46	3.04	.60		.17	.17	.166
		19.0	672.97	-1617.92	1761.71	-10.30	-10.17	183.46	3.04	1.12		.17	.17	.188
		25.3	672.97	-2390.84	2544.72	-10.30	-10.17	183.46	3.04	1.63		.17	.17	.210

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	Z ------KSI------	Y SHEAR STRESS	Z SHEAR STRESS ------/	COMB. UNITY CHECK
512- 712	PI- 1	0.0	-699.87	-23.16	315.65	1.69	5.98	183.94	-3.16	-.15		.10	.10	.160
		6.3	-699.87	431.19	187.41	1.69	5.98	183.94	-3.16	-.22		.10	.10	.162
		12.7	-699.87	885.54	59.16	1.69	5.98	183.94	-3.16	-.42		.10	.10	.169
		19.0	-699.87	1339.89	-69.09	1.69	5.98	183.94	-3.16	-.63		.10	.10	.177
		25.3	-699.87	1794.24	-197.33	1.69	5.98	183.94	-3.16	-.84		.10	.10	.185

ERROR NO. 90
EQUILIBRIUM CHECK -8.4137536E-03 -.5346003 2.4461409E-02 1.6079866E-09 -8.0920700E-02 -1.810547
MEMBER 601 621

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS	BENDING STRESS Y	Z	Y SHEAR STRESS	Z SHEAR STRESS	COMB. UNITY CHECK
601- 621	JL6- 1	0.0	-52.48	326.79	-1083.48	15.22	2.60	558.15	-.37	-.71		.39	.39	.047
		1.5	-52.50	374.80	-1348.31	13.81	2.66	558.15	-.37	-.88		.37	.37	.054
		3.0	-52.52	423.99	-1587.79	12.44	2.73	558.15	-.37	-1.03		.35	.35	.061
		4.6	-52.54	474.33	-1802.46	11.09	2.79	558.15	-.37	-1.17		.34	.34	.066
		6.1	-52.57	525.69	-1994.84	9.26	2.87	558.15	-.37	-1.30		.31	.31	.072

ERROR NO. 90
EQUILIBRIUM CHECK -.1317193 .2504635 .4261271 4.5110937E-10 -1.075387 .5750219
MEMBER 603 623

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS	BENDING STRESS Y	Z	Y SHEAR STRESS	Z SHEAR STRESS	COMB. UNITY CHECK
603- 623	JL6- 1	0.0	-548.34	53.84	232.00	-12.45	-12.83	-463.94	-3.84	-.15		.40	.40	.185
		1.5	-548.68	-170.49	453.39	-11.81	-11.75	-463.94	-3.84	-.30		.38	.38	.191
		3.0	-549.00	-375.34	663.34	-11.20	-10.70	-463.94	-3.84	-.48		.36	.36	.198
		4.6	-549.32	-561.15	862.14	-10.59	-9.67	-463.94	-3.84	-.65		.35	.35	.205
		6.1	-549.75	-729.86	1050.96	-9.77	-8.25	-463.94	-3.85	-.80		.32	.32	.212

ERROR NO. 90
EQUILIBRIUM CHECK .1217265 .2661156 -.4027021 -2.1768756E-09 1.334546 .9128823
MEMBER 606 626

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS	BENDING STRESS Y	Z	Y SHEAR STRESS	Z SHEAR STRESS	COMB. UNITY CHECK
606- 626	JL6- 1	0.0	644.73	452.56	266.66	-1.01	7.45	-44.29	4.51	.33		.12	.12	.223
		1.5	645.05	578.80	278.71	-.32	6.39	-44.29	4.51	.40		.10	.10	.226
		3.0	645.37	685.89	278.25	.36	5.35	-44.29	4.51	.47		.09	.09	.229
		4.6	645.68	774.28	265.54	1.03	4.34	-44.29	4.52	.51		.08	.08	.231
		6.1	646.09	845.91	241.79	1.94	2.97	-44.29	4.52	.55		.06	.06	.233
621- 651	JL6- 1	0.0	-52.57	516.37	-1994.82	9.76	2.73	560.52	-.37	-1.29		.32	.32	.072
		1.5	-52.60	565.52	-2155.72	7.88	2.66	560.52	-.37	-1.40		.29	.29	.076
		3.0	-52.62	613.57	-2282.74	6.05	2.61	560.52	-.37	-1.48		.27	.27	.080
		4.6	-52.65	660.62	-2376.76	4.27	2.55	560.52	-.37	-1.55		.25	.25	.082
		6.1	-52.67	706.65	-2438.71	2.53	2.49	560.52	-.37	-1.60		.23	.23	.084
622- 703	200- 1	0.0	66.73	-218.05	348.30	-.68	-.01	-30.25	1.75	2.30		.12	.12	.178
		5.4	66.72	-183.75	325.62	1.36	1.05	-30.25	1.75	2.09		.17	.17	.169
		10.9	66.71	-81.33	173.64	3.28	2.08	-30.25	1.45	1.07		[illegible]	[illegible]	[illegible]

	21.8	66.70	525.02	-[illegible]	6.01	4.11	-30.25	1.75	3.28	.50	.50	.217
623- 653 JU[illegible]1	0.0	-549.61	-733.58	1046.12	-9.52	[illegible]9.50	-466.01	-3.84	-.80	.33	.3[illegible]	.212
	1.5	-549.17	-894.98	1211.93	-8.66	-8.20	-466.01	-3.84	-.95	.31	.31	.218
	3.0	-548.74	-1055.07	1362.16	-7.82	-6.94	-466.01	-3.84	-1.07	.29	.29	.223
	4.6	-548.32	-1146.50	1497.25	-6.99	-5.72	-466.01	-3.84	-1.19	.27	.27	.227
	6.1	-547.91	-1241.62	1617.49	-6.19	-4.52	-466.01	-3.83	-1.28	.25	.25	.231
624- 701 200- 1	0.0	68.10	-72.19	-373.24	1.20	-.72	34.94	2.32	2.13	.17	.17	.197
	5.5	68.09	-100.05	-379.14	-1.00	-.12	34.94	2.32	2.19	.15	.15	.200
	11.0	68.09	-87.66	-243.95	-3.09	.49	34.94	2.32	1.45	.26	.26	.168
	16.5	68.09	-35.15	24.56	-5.06	1.11	34.94	2.32	.24	.37	.37	.117
	21.9	68.10	58.18	419.65	-6.95	1.73	34.94	2.32	2.37	.47	.47	.207

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
625- 706	200- 1	0.0	-142.57	181.86	8.41	-.63	.85	-16.87	-3.75	-1.02		.10	.10	.226
		5.5	-142.57	198.28	45.26	-.49	-.33	-16.87	-3.75	-1.14		.08	.08	.230
		11.0	-142.57	138.55	72.35	-.34	-1.49	-16.87	-3.75	-.87		.13	.13	.220
		16.4	-142.56	2.75	89.95	-.20	-2.64	-16.87	-3.75	-.50		.19	.19	.207
		21.9	-142.55	-208.70	99.41	-.09	-3.78	-16.87	-3.75	-1.29		.25	.25	.236
626- 656	JL6- 1	0.0	645.98	844.57	240.95	1.67	2.32	-43.90	4.52	.55		.05	.05	.232
		1.5	645.48	873.58	202.28	2.56	.86	-43.90	4.52	.56		.05	.05	.233
		3.0	644.99	876.30	147.66	3.42	-.56	-43.90	4.51	.56		.06	.06	.232
		4.6	644.51	853.35	77.50	4.26	-1.95	-43.90	4.51	.54		.08	.08	.231
		6.1	644.05	805.30	-7.78	5.08	-3.31	-43.90	4.51	.51		.10	.10	.230
651- 701	JL6- 1	0.0	-58.35	677.52	-2315.26	-19.11	-3.67	979.10	-.41	-1.52		.58	.58	.083
		1.8	-58.36	600.27	-1887.22	-21.06	-3.59	979.10	-.41	-1.24		.61	.61	.071
		3.5	-58.36	524.50	-1418.06	-22.98	-3.53	979.10	-.41	-.95		.63	.63	.059
		5.3	-58.37	450.08	-909.15	-24.82	-3.46	979.10	-.41	-.64		.66	.66	.046
		7.1	-58.38	377.00	-361.65	-26.60	-3.40	979.10	-.41	-.33		.68	.68	.033
653- 703	JL6- 1	0.0	-584.85	-1279.33	1695.47	8.04	3.25	-565.10	-4.09	-1.33		.30	.30	.246
		1.8	-584.85	-1192.22	1514.40	8.96	4.92	-565.10	-4.09	-1.21		.32	.32	.240
		3.5	-584.85	-1070.26	1314.17	9.84	6.53	-565.10	-4.09	-1.06		.34	.34	.234
		5.3	-584.86	-914.66	1095.43	10.70	8.08	-565.10	-4.09	-.90		.37	.37	.227
		7.1	-584.86	-726.50	858.86	11.52	9.59	-565.10	-4.09	-.71		.39	.39	.219
655- 706	JL6- 1	0.0	644.05	805.30	-7.76	5.08	-3.61	-43.90	4.51	.51		.10	.10	.230
		1.8	644.05	710.53	-126.57	6.08	-5.29	-43.90	4.51	.45		.13	.13	.228
		3.5	644.05	560.51	-266.35	7.05	-6.92	-43.90	4.51	.40		.15	.15	.225
		5.3	644.06	416.39	-426.49	7.99	-8.49	-43.90	4.51	.37		.18	.18	.224
		7.1	644.06	219.35	-606.28	8.90	-10.01	-43.90	4.51	.41		.20	.20	.226
701- 702	137- 1	0.0	43.30	56.78	63.47	-.95	-.43	-6.68	2.25	1.50		.17	.17	.167
		4.7	43.30	32.45	89.31	.03	-.43	-6.68	2.25	1.68		.10	.10	.175
		9.4	43.30	9.19	59.73	1.02	-.40	-6.68	2.25	1.07		.17	.17	.149
		14.1	43.30	-11.60	-25.29	2.00	-.34	-6.68	2.25	.49		.27	.27	.125
		16.8	43.30	-26.50	-165.74	2.99	-.26	-6.68	2.25	2.97		.37	.37	.229
701- 704	137- 1	0.0	-8.35	-25.35	63.53	-.98	.16	-11.85	-.43	-1.21		.21	.21	.080
		4.7	-8.33	-16.66	91.44	-.01	.15	-11.85	-.43	-1.64		.12	.12	.098
		9.4	-8.32	-9.30	65.03	.95	.11	-11.85	-.43	-1.16		.20	.20	.078
		14.1	-8.30	-4.58	-15.69	1.92	.05	-11.85	-.43	-.29		.30	.30	.041
		18.8	-8.29	-3.82	-150.72	2.88	-.03	-11.85	-.43	-2.66		.40	.40	.141
701- 801	JL7- 1	0.0	54.17	297.20	-448.29	10.36	-1.87	340.91	.77	.68		.51	.51	.064
		7.1	54.14	149.12	-1051.00	3.91	-1.61	340.91	.77	1.35		.34	.34	.092
		14.2	54.13	23.47	-1135.33	-1.83	-1.35	340.91	.77	1.44		.28	.28	.096
		21.3	54.15	-82.03	-756.44	-6.98	-1.13	340.91	.77	.97		.42	.42	.076
		28.4	54.18	-170.59	38.81	-11.62	-.95	340.91	.77	.22		.55	.55	.045

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	Z ------KSI------	Y SHEAR STRESS	Z SHEAR STRESS ------/	COMB. UNITY CHECK
701- 806	200- 1	0.0	-105.16	-253.09	-531.71	-6.89	2.60	-28.40	-2.76	-3.30		.47	.47	.298
		12.5	-105.21	44.41	213.02	-3.08	1.36	-28.40	-2.77	-1.22		.26	.26	.217
		25.1	-105.19	158.60	418.41	.29	.16	-28.40	-2.77	-2.50		.10	.10	.267
		37.6	-105.14	94.87	142.27	3.32	-1.01	-28.40	-2.76	-.96		.26	.26	.206
		50.2	-105.10	-139.50	-504.63	6.02	-2.09	-28.40	-2.76	-3.25		.41	.41	.297
702- 703	137- 1	0.0	48.12	-26.64	-109.30	-2.51	-.02	4.50	2.50	1.98		.30	.30	.199
		4.7	48.12	-25.33	4.14	-1.53	.06	4.50	2.50	.45		.20	.20	.135
		9.4	48.12	-17.09	62.62	-.56	.19	4.50	2.50	1.15		.10	.10	.164
		14.1	48.12	-3.65	67.38	.40	.31	4.50	2.50	1.19		.09	.09	.166
		18.8	48.12	17.45	18.50	1.34	.45	4.50	2.50	.45		.19	.19	.135
702- 704	107- 1	0.0	-.52	-4.54	7.61	.04	-.17	2.63	-.04	-.30		.07	.07	.015
		4.7	-.52	-10.02	5.15	.04	-.03	2.63	-.04	-.38		.05	.05	.012
		9.4	-.52	-7.59	2.69	.04	.11	2.63	-.04	-.27		.06	.06	.014
		14.1	-.52	2.53	.22	.04	.24	2.63	-.04	-.06		.09	.09	.026
		18.8	-.52	19.25	-2.24	.04	.35	2.63	-.04	-.65		.10	.10	.030
702- 705	107- 1	0.0	-6.95	-5.94	-64.06	-1.90	-.07	-1.53	-.58	-2.15		.34	.34	.124
		4.7	-6.93	-7.38	15.54	-.95	.01	-1.53	-.58	-.56		.18	.15	.055
		9.4	-6.92	-4.92	40.83	.03	.07	-1.53	-.58	-1.38		.04	.04	.091
		14.1	-6.90	.03	11.81	1.00	.10	-1.53	-.58	-.39		.19	.19	.050
		18.8	-6.89	6.04	-71.52	1.96	.11	-1.53	-.58	-2.40		.36	.36	.134
703- 705	137- 1	0.0	-21.15	4.93	-125.41	-.97	-.43	-3.72	-1.10	-2.21		.14	.14	.145
		4.7	-21.15	-14.42	-70.46	-.97	-.26	-3.72	-1.10	-1.28		.14	.14	.127
		9.4	-21.15	-24.53	-14.35	-.97	-.11	-3.72	-1.10	-.52		.13	.13	.095
		14.1	-21.15	-26.50	36.18	-.97	.04	-3.72	-1.10	-.42		.13	.13	.106
		18.8	-21.15	-20.57	92.71	-.97	.18	-3.72	-1.10	-1.67		.14	.14	.144
703- 801	200- 1	0.0	-106.02	-186.49	657.02	7.71	1.32	27.44	-2.79	-3.82		.49	.49	.321
		12.5	-106.04	-22.53	-192.87	3.06	.85	27.44	-2.79	-1.09		.27	.27	.215
		25.1	-106.07	69.60	-467.96	.06	.36	27.44	-2.79	-2.65		.10	.10	.274
		37.6	-106.06	80.79	-229.98	-3.17	-.22	27.44	-2.79	-1.36		.24	.24	.224
		50.2	-106.07	2.20	469.78	-6.09	-.53	27.44	-2.79	-2.63		.40	.40	.274
703- 803	JL7- 1	0.0	-465.76	-654.49	616.23	-2.30	-8.07	197.98	-6.91	-1.33		.36	.36	.346
		7.1	-467.74	-1104.60	665.36	.62	-2.62	197.98	-6.91	-1.80		.20	.20	.423
		14.2	-468.73	-1120.09	720.41	3.29	2.16	197.98	-6.91	-1.69		.24	.24	.399
		21.3	-468.75	-752.13	345.22	5.49	6.39	197.98	-6.91	-1.05		.36	.36	.376
		28.4	-468.75	-44.30	-207.66	7.53	10.15	197.98	-6.91	-.27		.48	.48	.347
704- 705	107- 1	0.0	7.41	5.32	-74.50	-1.95	.06	.04	.02	2.50		.33	.33	.154
		4.7	7.41	6.32	6.48	-1.00	-.02	.04	.02	.35		.17	.17	.044
		9.4	7.41	3.36	38.01	-.05	-.06	.04	.02	1.28		.02	.02	.093
		14.1	7.41	-2.24	13.43	.92	-.12	.04	.02	.46		.16	.16	.096
		18.8	7.41	-9.16	-65.92	1.90	-.13	.04	.02	2.23		.32	.32	.172

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
704- 706	137- 1	0.0	-13.89	.64	-78.47	-2.09	.26	10.72	-.72	-1.38		.31	.31	.196
		4.7	-13.88	12.60	12.30	-1.13	.16	10.72	-.72	-.31		.21	.21	.061
		9.4	-13.87	18.43	49.28	-.18	.05	10.72	-.72	-.93		.11	.11	.047
		14.1	-13.87	17.65	53.03	.76	-.08	10.72	-.72	-.66		.17	.17	.076
		18.8	-13.88	9.61	-55.85	1.69	-.21	10.72	-.72	-.65		.27	.27	.076
705- 706	137- 1	0.0	-31.64	-14.26	-44.75	-.48	.16	-1.82	-1.64	-.83		.07	.07	.144
		4.7	-31.64	-1.75	-17.65	-.48	.28	-1.82	-1.64	-.31		.07	.07	.125
		9.4	-31.64	16.80	9.44	-.48	.38	-1.82	-1.64	-.34		.08	.08	.124
		14.1	-31.64	40.63	36.52	-.48	.47	-1.82	-1.64	-.96		.09	.09	.150
		18.8	-31.64	66.97	63.60	-.48	.53	-1.82	-1.64	-1.65		.09	.09	.179
706- 803	200- 1	0.0	187.69	371.06	-169.32	-.70	-3.33	-4.53	4.93	2.28		.19	.19	.324
		12.5	187.74	-25.71	-71.74	-.60	-1.91	-4.53	4.93	.42		.12	.12	.246
		25.1	187.78	-205.49	11.20	-.50	-.47	-4.53	4.94	1.14		.05	.05	.277
		37.6	187.80	-164.37	79.51	-.41	1.00	-4.53	4.94	1.02		.07	.07	.272
		50.2	187.80	97.57	133.18	-.31	2.49	-4.53	4.94	.92		.14	.14	.257
705- 806	JL7- 1	0.0	454.53	450.43	-459.12	-8.14	8.83	-278.26	6.43	.82		.52	.52	.332
		7.1	454.52	963.21	90.92	-4.84	5.32	-278.26	6.43	1.23		.34	.34	.349
		14.2	454.55	1034.03	376.15	-1.90	-1.57	-278.26	6.43	1.40		.25	.25	.357
		21.3	454.56	709.34	422.63	.77	-5.98	-278.26	6.43	1.05		.35	.35	.342
		28.4	454.57	27.30	253.09	3.17	-9.98	-278.26	6.43	.32		.47	.47	.311
710- 810	P2- 1	0.0	12.34	674.05	-2777.62	-1.85	-2.09	-55.84	.05	1.19		.03	.03	.052
		7.1	12.34	496.40	-2620.05	-1.85	-2.09	-55.84	.05	1.11		.03	.03	.049
		14.2	12.34	318.74	-2462.49	-1.85	-2.09	-55.84	.05	1.03		.03	.03	.046
		21.3	12.34	141.09	-2304.93	-1.85	-2.09	-55.84	.05	.96		.03	.03	.043
		28.4	12.34	-36.57	-2147.36	-1.85	-2.09	-55.84	.05	.90		.03	.03	.040
711- 811	P2- 1	0.0	672.96	-2394.62	2541.28	5.07	.07	181.88	2.68	1.46		.08	.08	.185
		7.1	672.96	-2388.70	2109.64	5.07	.07	181.88	2.68	1.33		.08	.08	.180
		14.2	672.96	-2382.79	1678.00	5.07	.07	181.88	2.68	1.21		.08	.08	.175
		21.3	672.96	-2376.87	1246.36	5.07	.07	181.88	2.68	1.12		.08	.08	.171
		28.4	672.96	-2370.95	814.72	5.07	.07	181.88	2.68	1.04		.08	.08	.168
712- 812	P2- 1	0.0	-699.87	1794.24	-197.26	-4.13	1.67	184.01	-2.78	-.75		.07	.07	.169
		7.1	-699.87	1936.82	154.10	-4.13	1.67	184.01	-2.78	-.81		.07	.07	.171
		14.2	-699.87	2079.41	505.47	-4.13	1.67	184.01	-2.78	-.89		.07	.07	.174
		21.3	-699.87	2221.99	856.84	-4.13	1.67	184.01	-2.78	-.99		.07	.07	.179
		28.4	-699.87	2364.58	1208.21	-4.13	1.67	184.01	-2.78	-1.11		.07	.07	.183
801- 802	148- 1	0.0	2.66	79.32	126.19	-.51	-.56	-5.79	.13	2.16		.11	.11	.097
		5.7	2.66	42.90	133.53	.29	-.50	-5.79	.13	2.03		.10	.10	.091
		11.4	2.66	11.35	86.33	1.09	-.42	-5.79	.13	1.26		.15	.15	.059
		17.1	2.66	-14.37	-15.40	1.89	-.35	-5.79	.13	.30		.22	.22	.019
		22.8	2.66	-33.26	-171.67	2.68	-.22	-5.79	.13	2.53		.30	.30	.112

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE FY KIPS	----/ FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y	Z -------KSI	Y SHEAR STRESS	Z SHEAR STRESS -----/	COMB. UNITY CHECK
503- 906	200- 1	0.0	-201.39	-315.52	-192.63	-.64	1.73	-.72	-5.29	-2.07		.10	.10	.452
		14.9	-201.40	-46.78	-64.84	-.55	1.23	-.72	-5.29	-.54		.07	.07	.380
		29.8	-201.43	110.72	3.40	-.44	.50	-.72	-5.29	-.62		.04	.04	.385
		44.7	-201.47	122.50	74.38	-.36	-.38	-.72	-5.30	-.80		.03	.03	.392
		59.6	-201.52	-28.08	133.64	-.30	-1.30	-.72	-5.30	-.76		.07	.07	.390
804- 805	10B- 1	0.0	6.19	9.16	-61.49	-1.45	.01	.12	.52	2.08		.25	.25	.112
		5.7	6.19	7.90	12.46	-.71	-.04	.12	.52	.49		.12	.12	.045
		11.4	6.19	4.37	35.73	.03	-.06	.12	.52	1.20		.01	.01	.075
		17.1	6.19	.14	8.32	.77	-.06	.12	.52	.28		.13	.13	.036
		22.8	6.19	-4.12	-69.78	1.51	-.06	.12	.52	2.34		.26	.26	.122
804- 806	14B- 1	0.0	-33.31	-11.00	-129.55	-2.26	.31	10.48	-1.57	-1.88		.29	.29	.191
		5.7	-33.31	10.18	-2.23	-1.47	.30	10.48	-1.57	-.15		.22	.22	.116
		11.4	-33.31	30.39	70.95	-.67	.28	10.48	-1.57	-1.12		.14	.14	.159
		17.1	-33.32	48.64	89.98	.12	.25	10.48	-1.57	-1.48		.10	.10	.174
		22.8	-33.32	63.98	54.88	.91	.20	10.48	-1.57	-1.22		.16	.16	.164
805- 806	14B- 1	0.0	19.46	-27.45	-91.14	-.88	.28	-6.75	.92	1.38		.14	.14	.100
		5.7	19.46	-4.45	-31.07	-.88	.39	-6.75	.92	.45		.14	.14	.062
		11.4	19.46	26.38	29.00	-.88	.51	-6.75	.92	.57		.14	.14	.066
		17.1	19.46	64.66	89.07	-.88	.61	-6.75	.92	1.59		.15	.15	.110
		22.8	19.46	108.79	149.14	-.88	.68	-6.75	.92	2.67		.15	.15	.155
806- 901	200- 1	0.0	115.86	308.21	510.11	5.34	-1.83	25.42	3.05	3.34		.37	.37	.281
		14.9	115.89	45.37	-189.69	2.53	-1.10	25.42	3.05	1.09		.22	.22	.187
		29.8	115.93	-86.27	-409.17	-.05	-.37	25.42	3.05	2.34		.09	.09	.240
		44.7	115.96	-87.61	-182.39	-2.46	.35	25.42	3.05	1.13		.20	.20	.189
		59.6	116.00	40.44	455.60	-4.65	1.08	25.42	3.05	2.57		.32	.32	.249
806- 906	JLB- 1	0.0	331.97	326.33	10.62	-5.02	5.26	355.88	4.70	.42		.43	.43	.235
		8.1	331.99	632.64	374.52	-2.54	1.11	355.88	4.70	.94		.30	.30	.257
		16.2	332.01	556.16	513.50	-.31	-2.62	355.88	4.70	.96		.30	.30	.258
		24.3	332.04	135.18	445.27	1.68	-5.98	355.88	4.70	.59		.40	.40	.242
		32.4	332.05	-596.54	191.11	3.52	-9.06	355.88	4.70	.80		.50	.50	.251
810- 910	P2- 1	0.0	12.34	-34.19	-2147.36	-6.33	-1.70	-57.45	.05	.90		.06	.06	.040
		8.1	12.34	-199.98	-1531.35	-6.33	-1.70	-57.45	.05	.64		.06	.06	.029
		16.2	12.34	-365.76	-915.35	-6.33	-1.70	-57.45	.05	.41		.06	.06	.020
		24.3	12.34	-531.54	-299.34	-6.33	-1.70	-57.45	.05	.25		.06	.06	.013
		32.4	12.34	-697.33	316.66	-6.33	-1.70	-57.45	.05	.32		.06	.06	.016
811- 911	P2- 1	0.0	672.95	-2370.01	817.20	4.96	10.94	182.93	2.68	1.04		.13	.13	.158
		8.1	672.95	-1304.63	334.53	4.96	10.94	182.93	2.68	.56		.13	.13	.146
		16.2	672.95	-239.64	-148.13	4.96	10.94	182.93	2.68	.12		.13	.13	.129
		24.3	672.95	825.55	-630.80	4.96	10.94	182.93	2.68	.43		.13	.13	.142
		32.4	672.95	1890.74	-1113.46	4.96	10.94	182.93	2.68	.91		.13	.13	.142

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
812- 912	P2- 1	0.0	-699.85	2364.58	1208.13	.46	-9.52	184.53	-2.78	-1.11		.11	.11	.185
		8.1	-699.85	1436.47	1163.01	.46	-9.52	184.53	-2.78	-.77		.11	.11	.171
		16.2	-699.85	512.36	1117.89	.46	-9.52	184.53	-2.78	-.51		.11	.11	.160
		24.3	-699.85	-413.75	1072.78	.46	-9.52	184.53	-2.78	-.48		.11	.11	.159
		32.4	-699.85	-1339.86	1027.66	.46	-9.52	184.53	-2.78	-.70		.11	.11	.168
901- 902	169- 1	0.0	-17.90	92.10	160.25	-.40	-.51	-9.76	-.74	-2.02		.11	.11	.140
		6.9	-17.90	52.94	162.37	.35	-.44	-9.76	-.74	-1.87		.10	.10	.133
		13.7	-17.90	19.42	103.87	1.07	-.37	-9.76	-.74	-1.16		.15	.15	.103
		20.6	-17.90	-8.46	-13.83	1.79	-.30	-9.76	-.74	-.18		.20	.20	.082
		27.4	-17.90	-30.70	-189.53	2.48	-.24	-9.76	-.74	-2.10		.26	.26	.143
901- 904	169- 1	0.0	-55.73	-21.07	162.26	-.28	-.09	-14.76	-2.29	-1.79		.10	.10	.236
		6.9	-55.71	-26.24	155.87	.43	-.03	-14.76	-2.29	-1.73		.12	.12	.234
		13.7	-55.70	-27.19	91.46	1.14	.01	-14.76	-2.29	-1.04		.17	.17	.209
		20.6	-55.69	-25.35	-30.98	1.84	.03	-14.76	-2.29	-.44		.23	.23	.187
		27.4	-55.68	-22.05	-211.44	2.55	.04	-14.76	-2.29	-2.32		.29	.29	.256
901-1001	JL9- 1	0.0	1.00	-212.21	-20.68	5.72	.45	-211.89	.01	.27		.30	.30	.012
		8.1	1.02	-164.39	-415.56	2.44	.55	-211.89	.01	.57		.21	.21	.025
		16.2	1.03	-106.92	-504.61	-.58	.60	-211.89	.01	.66		.16	.16	.028
		24.3	1.03	-48.71	-309.38	-3.40	.63	-211.89	.01	.40		.23	.23	.017
		32.4	1.03	13.36	148.58	-5.97	.64	-211.89	.01	.19		.30	.30	.009
901-1002	1H0- 1	0.0	91.99	134.59	-72.04	-2.02	-1.39	-18.59	3.35	1.30		.26	.26	.210
		10.6	92.02	1.86	107.67	-.65	-.71	-18.59	3.35	.92		.16	.16	.194
		21.1	92.04	-44.94	142.78	.27	-.04	-18.59	3.35	1.28		.10	.10	.209
		31.7	92.00	-11.29	42.69	1.30	.56	-18.59	3.35	.38		.18	.18	.171
		42.2	91.95	91.83	-179.87	2.19	1.05	-18.59	3.35	1.73		.26	.26	.228
901-1004	1H0- 1	0.0	-99.96	-91.76	-99.48	-2.16	1.13	-13.74	-3.64	-1.16		.24	.24	.262
		10.6	-99.94	11.99	96.90	-.96	.51	-13.74	-3.64	-.83		.14	.14	.249
		21.1	-99.91	39.30	146.98	.15	-.08	-13.74	-3.63	-1.30		.07	.07	.267
		31.7	-99.95	-6.26	61.47	1.18	-.64	-13.74	-3.64	-.53		.16	.16	.236
		42.2	-99.95	-118.56	-147.38	2.09	-1.12	-13.74	-3.64	-1.62		.23	.23	.280
902- 903	169- 1	0.0	-13.83	-26.68	-119.23	-1.82	-.13	6.95	-.57	-1.34		.19	.19	.096
		6.9	-13.83	-33.93	2.38	-1.14	-.05	6.95	-.57	-.37		.13	.13	.056
		13.7	-13.83	-34.14	67.61	-.45	.05	6.95	-.57	-.83		.08	.08	.077
		20.6	-13.83	-25.89	76.45	.24	.16	6.95	-.57	-.88		.06	.06	.079
		27.4	-13.83	-7.77	28.90	.92	.29	6.95	-.57	-.33		.12	.12	.056
902- 904	109- 1	0.0	.28	-5.95	-5.31	-.02	-.06	4.69	.02	.27		.09	.09	.012
		6.9	.28	-8.38	-3.93	-.02	.00	4.69	.02	.31		.08	.08	.014
		13.7	.28	-5.18	-2.56	-.02	.07	4.69	.02	.19		.09	.09	.009
		20.6	.28	3.66	-1.18	-.02	.14	4.69	.02	.13		.10	.10	.007
		27.4	.28	18.14	.19	-.02	.21	4.69	.02	.61		.11	.11	.027

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 7

U.S. NAVY - ACHR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
902- 905	109- 1	0.0	-5.88	-9.45	-64.80	-1.12	-.05	-2.07	-.49	-2.19		.22	.22	.127
		6.9	-5.88	-10.72	4.52	-.57	.01	-2.07	-.49	-.39		.13	.13	.051
		13.7	-5.88	-7.77	28.39	-.01	.06	-2.07	-.49	-.98		.04	.04	.076
		20.6	-5.88	-2.00	6.82	.54	.08	-2.07	-.49	-.24		.13	.13	.045
		27.4	-5.87	5.18	-60.20	1.09	.09	-2.07	-.49	-2.02		.22	.22	.120
903- 905	169- 1	0.0	70.03	-55.37	-112.12	-.45	-.03	-2.39	2.88	1.37		.05	.05	.191
		6.9	70.03	-55.07	-75.42	-.45	.04	-2.39	2.88	1.02		.05	.05	.176
		13.7	70.03	-49.14	-38.71	-.45	.11	-2.39	2.88	.68		.05	.05	.162
		20.6	70.03	-37.57	-2.01	-.45	.17	-2.39	2.88	.41		.05	.05	.150
		27.4	70.03	-20.36	34.70	-.45	.24	-2.39	2.88	.44		.05	.05	.152
903-1002	180- 1	0.0	-93.27	-68.81	175.83	2.48	.59	8.49	-3.39	-1.61		.22	.22	.265
		10.6	-93.24	-12.70	-58.29	1.23	.30	8.49	-3.39	-.51		.13	.13	.221
		21.1	-93.21	6.75	-138.79	.06	.01	8.49	-3.39	-1.19		.04	.04	.248
		31.7	-93.19	-11.20	-75.60	-1.04	-.29	8.49	-3.39	-.65		.11	.11	.227
		42.2	-93.18	-67.31	121.33	-2.06	-.60	8.49	-3.39	-1.19		.19	.19	.248
903-1003	JL9- 1	0.0	-20.56	395.49	-339.67	-3.13	-4.58	185.20	-.29	-.66		.27	.27	.042
		8.1	-20.56	63.05	-99.01	-1.83	-2.28	185.20	-.29	-.15		.20	.20	.021
		16.2	-20.54	-55.28	20.30	-.64	-.19	185.20	-.29	-.07		.14	.14	.017
		24.3	-20.56	19.32	30.99	.40	1.68	185.20	-.29	-.05		.17	.17	.016
		32.4	-20.57	261.61	-51.57	1.27	3.25	185.20	-.29	-.34		.22	.22	.029
903-1005	180- 1	0.0	-170.44	-184.08	-117.62	-.52	1.58	21.51	-6.20	-1.87		.21	.21	.448
		10.6	-170.43	-27.51	-59.02	-.41	.89	21.51	-6.20	-.56		.16	.16	.391
		21.1	-170.37	38.46	-14.81	-.29	.15	21.51	-6.20	-.35		.12	.12	.382
		31.7	-170.31	11.38	15.02	-.18	-.58	21.51	-6.20	-.16		.14	.14	.374
		42.2	-170.30	-106.36	30.44	-.06	-1.27	21.51	-6.20	-.95		.18	.18	.408
904- 905	109- 1	0.0	5.64	9.44	-57.02	-1.10	-.04	-1.79	.47	1.93		.22	.22	.103
		6.9	5.64	6.55	11.05	-.55	-.04	-1.79	.47	.43		.12	.12	.040
		13.7	5.64	3.66	32.60	.03	-.04	-1.79	.47	1.10		.04	.04	.068
		20.6	5.64	.76	6.22	.62	-.04	-1.79	.47	.21		.13	.13	.031
		27.4	5.64	-2.13	-69.50	1.23	-.04	-1.79	.47	2.33		.24	.24	.120
904- 906	169- 1	0.0	-59.33	-20.22	-154.23	-2.05	.29	12.36	-2.44	-1.70		.24	.24	.244
		6.9	-59.32	3.48	-14.70	-1.34	.29	12.36	-2.44	-.17		.18	.18	.187
		13.7	-59.31	27.18	66.77	-.64	.29	12.36	-2.44	-.79		.13	.13	.211
		20.6	-59.29	50.88	90.17	.07	.29	12.36	-2.44	-1.13		.09	.09	.224
		27.4	-59.28	74.58	55.52	.77	.29	12.36	-2.43	-1.02		.14	.14	.222
905- 906	169- 1	0.0	62.27	-20.04	-95.00	-.73	.30	-5.18	2.56	1.06		.09	.09	.163
		6.9	62.27	7.33	-34.95	-.73	.37	-5.18	2.56	.39		.10	.10	.135
		13.7	62.27	40.34	25.10	-.73	.44	-5.18	2.56	.52		.10	.10	.140
		20.6	62.27	78.99	85.15	-.73	.50	-5.18	2.56	1.27		.10	.10	.172
		27.4	62.27	123.29	145.20	-.73	.57	-5.18	2.56	2.08		.10	.10	.206

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
906-1004	180- 1	0.0	100.70	109.18	166.58	2.48	-.94	-1.25	3.66	1.70		.20	.20	.241
		10.6	100.68	19.56	-65.51	1.20	-.48	-1.25	3.66	.58		.10	.10	.194
		21.1	100.65	-14.88	-139.06	-.02	-.07	-1.25	3.66	1.20		.01	.01	.220
		31.7	100.63	-1.65	-65.03	-1.13	.27	-1.25	3.66	.56		.09	.09	.193
		42.2	100.65	53.47	142.60	-2.13	.59	-1.25	3.66	1.30		.17	.17	.224
906-1005	180- 1	0.0	170.85	131.34	-88.31	-.32	-1.51	7.92	6.22	1.35		.15	.15	.345
		10.6	170.85	-8.35	-51.15	-.27	-.70	7.92	6.22	.44		.09	.09	.306
		21.1	170.85	-45.53	-20.23	-.22	.11	7.92	6.22	.43		.05	.05	.306
		31.7	170.84	17.91	4.17	-.16	.88	7.92	6.21	.16		.10	.10	.294
		42.2	170.83	172.43	20.78	-.10	1.55	7.92	6.21	1.48		.15	.15	.350
906-1006	JL9- 1	0.0	19.46	-167.81	379.46	-2.15	5.19	115.77	.28	.53		.23	.23	.035
		8.1	19.47	195.02	502.30	-.41	2.29	115.77	.28	.69		.14	.14	.042
		16.2	19.49	282.97	403.33	1.19	-.47	115.77	.28	.69		.11	.11	.042
		24.3	19.48	110.51	274.45	2.67	-3.04	115.77	.28	.38		.19	.19	.029
		32.4	19.50	-301.98	-52.47	4.03	-5.39	115.77	.28	.39		.26	.26	.029
1010- 910	P3- 1	0.0	12.33	599.75	6660.19	17.92	-3.33	-57.43	.05	2.79		.16	.16	.120
		8.1	12.33	275.55	4915.82	17.92	-3.33	-57.43	.05	2.05		.16	.16	.089
		16.2	12.33	-48.65	3171.45	17.92	-3.33	-57.43	.05	1.32		.16	.16	.058
		24.3	12.33	-372.84	1427.08	17.92	-3.33	-57.43	.05	.61		.16	.16	.028
		32.4	12.33	-697.04	-317.29	17.92	-3.33	-57.43	.05	.32		.16	.16	.016
1011- 911	P3- 1	0.0	672.98	-6339.54	-3410.72	-11.62	21.14	183.51	2.68	3.00		.23	.23	.250
		8.1	672.98	-4281.72	-2280.12	-11.62	21.14	183.51	2.68	2.02		.23	.23	.209
		16.2	672.98	-2223.90	-1149.53	-11.62	21.14	183.51	2.68	1.04		.23	.23	.168
		24.3	672.98	-166.08	-18.93	-11.62	21.14	183.51	2.68	.07		.23	.23	.127
		32.4	672.98	1891.74	1111.67	-11.62	21.14	183.51	2.68	.91		.23	.23	.162
1012- 912	P3- 1	0.0	-699.89	5972.83	-1850.06	-2.11	-18.78	184.53	-2.78	-2.61		.19	.19	.248
		8.1	-699.89	4144.66	-1644.46	-2.11	-18.78	184.53	-2.78	-1.86		.19	.19	.217
		16.2	-699.89	2316.49	-1438.86	-2.11	-18.78	184.53	-2.78	-1.14		.19	.19	.186
		24.3	-699.89	488.32	-1233.26	-2.11	-18.78	184.53	-2.78	-.55		.19	.19	.162
		32.4	-699.89	-1339.86	-1027.66	-2.11	-18.78	184.53	-2.78	-.70		.19	.19	.168
1001-1002	200- 1	0.0	-124.18	167.53	115.67	-.86	-.70	13.67	-3.26	-1.14		.10	.10	.277
		8.0	-124.18	100.00	163.27	-.13	-.70	13.67	-3.26	-1.07		.08	.08	.271
		16.0	-124.18	32.47	141.58	.59	-.70	13.67	-3.26	-.81		.09	.09	.250
		24.0	-124.18	-35.06	50.60	1.31	-.70	13.67	-3.26	-.34		.12	.12	.243
		32.0	-124.18	-102.59	-109.68	2.03	-.70	13.67	-3.26	-.84		.15	.15	.263
1001-1004	200- 1	0.0	117.79	-170.37	117.77	-.87	.60	34.43	3.10	1.16		.15	.15	.192
		8.0	117.76	-112.31	164.72	-.11	.60	34.43	3.10	1.12		.13	.13	.190
		16.0	117.73	-54.25	139.06	.64	.60	34.43	3.09	.84		.14	.14	.178
		24.0	117.71	3.81	40.80	1.40	.60	34.43	3.09	.23		.18	.18	.153
		32.0	117.68	61.87	-150.05	2.15	.60	34.43	3.09	.81		.21	.21	.177

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 7

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
1002-1003	200- 1	0.0	3.01	46.96	-76.06	-1.63	-.40	-52.71	.08	.50		.24	.24	.025
		8.0	3.01	8.69	45.85	-.91	-.40	-52.71	.08	.26		.20	.20	.015
		16.0	3.01	-29.18	100.40	-.22	-.40	-52.71	.08	.59		.17	.17	.028
		24.0	3.01	-67.25	89.50	.45	-.40	-52.71	.08	.63		.18	.18	.030
		32.0	3.01	-105.35	15.08	1.10	-.40	-52.71	.08	.60		.21	.21	.029
1002-1004	140- 1	0.0	.10	-109.67	-2.49	-.01	.58	17.57	.01	2.06		.24	.24	.087
		8.0	.10	-53.75	-1.74	-.01	.58	17.57	.01	1.01		.24	.24	.043
		16.0	.10	2.57	-.98	-.01	.58	17.57	.01	.05		.24	.24	.002
		24.0	.10	58.49	-.23	-.01	.58	17.57	.01	1.10		.24	.24	.047
		32.0	.10	114.61	.52	-.01	.58	17.57	.01	2.15		.24	.24	.091
1002-1005	140- 1	0.0	-9.70	-84.27	-61.67	-.97	.33	-7.30	-.60	-1.96		.20	.20	.118
		8.0	-9.70	-52.44	8.48	-.49	.33	-7.30	-.60	-1.00		.14	.14	.077
		16.0	-9.70	-20.60	32.06	.00	.33	-7.30	-.60	-.72		.11	.11	.066
		24.0	-9.68	11.24	7.42	.51	.33	-7.30	-.60	-.25		.14	.14	.046
		32.0	-9.65	43.08	-67.12	1.04	.33	-7.30	-.60	-1.50		.20	.20	.098
1003-1005	200- 1	0.0	129.75	-245.72	-176.08	-.62	1.05	4.35	3.41	1.69		.08	.08	.229
		8.0	129.75	-145.25	-116.64	-.62	1.05	4.35	3.41	1.04		.08	.08	.202
		16.0	129.75	-44.77	-57.20	-.62	1.05	4.35	3.41	.41		.08	.08	.175
		24.0	129.75	55.71	2.24	-.62	1.05	4.35	3.41	.31		.08	.08	.171
		32.0	129.75	156.19	61.68	-.62	1.05	4.35	3.41	.94		.08	.08	.197
1004-1005	140- 1	0.0	9.59	65.28	-55.85	-.94	-.25	-10.78	.60	1.61		.22	.22	.096
		8.0	9.59	41.54	11.02	-.46	-.25	-10.78	.60	.81		.17	.17	.062
		16.0	9.59	17.81	31.69	.03	-.25	-10.78	.60	.68		.13	.13	.056
		24.0	9.59	-5.93	6.17	.51	-.25	-10.78	.60	.16		.17	.17	.034
		32.0	9.59	-29.67	-65.55	.99	-.25	-10.78	.60	1.35		.23	.23	.085
1004-1006	200- 1	0.0	-19.43	-89.27	-65.44	-1.59	.58	-28.74	-.51	-.62		.17	.17	.062
		8.0	-19.45	-33.99	50.98	-.84	.58	-28.74	-.51	-.34		.13	.13	.050
		16.0	-19.45	21.29	95.76	-.10	.58	-28.74	-.51	-.55		.11	.11	.059
		24.0	-19.43	76.57	69.87	.65	.58	-28.74	-.51	-.58		.13	.13	.060
		32.0	-19.40	131.85	-25.74	1.35	.58	-28.74	-.51	-.75		.16	.16	.067
1005-1006	200- 1	0.0	-105.26	-94.95	-59.80	-.54	.90	4.18	-2.77	-.63		.07	.07	.220
		8.0	-105.26	-8.40	-7.75	-.54	.90	4.18	-2.77	-.06		.07	.07	.197
		16.0	-105.26	78.14	44.35	-.54	.90	4.18	-2.77	-.50		.07	.07	.215
		24.0	-105.26	164.68	96.46	-.54	.90	4.18	-2.77	-1.07		.07	.07	.238
		32.0	-105.26	251.23	148.57	-.54	.90	4.18	-2.77	-1.63		.07	.07	.261

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /----------	BENDING STRESS Y	Z ----KSI----	Y SHEAR STRESS	Z SHEAR STRESS ----/	COMB. UNITY CHECK
101- 102	W18- 1	0.0	.01	-.11	-.76	-.01	.00	.00	.00	-.00	-.07	.00	.00	.003
		3.6	.01	-.07	-.49	-.01	.00	.00	.00	-.00	-.05	.00	.00	.002
		7.3	.01	-.04	-.21	-.01	.00	.00	.00	-.00	-.02	.00	.00	.001
		10.9	.01	.00	.06	-.01	.00	.00	.00	.00	.01	.00	.00	.000
		14.5	.01	.04	.33	-.01	.00	.00	.00	.00	.03	.00	.00	.001
101- 104	W18- 1	0.0	.00	-.07	-.76	-.01	.00	.00	.00	-.00	-.07	.00	.00	.003
		3.6	.00	-.05	-.49	-.01	.00	.00	.00	-.00	-.05	.00	.00	.002
		7.2	.00	-.03	-.21	-.01	.00	.00	.00	-.00	-.02	.00	.00	.001
		10.9	.00	-.02	.07	-.01	.00	.00	.00	-.00	.01	.00	.00	.000
		14.5	.00	.00	.34	-.01	.00	.00	.00	.00	.03	.00	.00	.001
101- 201	DKL- 1	0.0	.00	.06	-.14	-.01	-.01	-1.52	.00	.00		.00	.00	.000
		3.8	.00	-.50	.36	-.01	-.01	-1.52	.00	.00		.00	.00	.000
		7.5	.00	-1.06	.86	-.01	-.01	-1.52	.00	.00		.00	.00	.000
		11.3	.00	-1.62	1.36	-.01	-.01	-1.52	.00	.00		.00	.00	.000
		15.0	.00	-2.18	1.86	-.01	-.01	-1.52	.00	.00		.00	.00	.000
102- 103	W18- 1	0.0	.01	.03	.29	.00	.00	-.00	.00	.00	.03	.00	.00	.001
		3.6	.01	.07	.10	.00	.00	-.00	.00	.00	.01	.00	.00	.000
		7.3	.01	.11	-.10	.00	.00	-.00	.00	.00	-.01	.00	.00	.001
		10.9	.01	.14	-.30	.00	.00	-.00	.00	.00	-.03	.00	.00	.001
		14.5	.01	.18	-.49	.00	.00	-.00	.00	.00	-.05	.00	.00	.002
102- 104	W08- 1	0.0	-.00	-.00	.04	.00	-.00	.00	-.00	-.00	.01	.00	.00	.000
		3.6	-.00	-.00	.02	.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		7.2	-.00	-.00	.00	.00	-.00	.00	-.00	-.00	.00	.00	.00	.000
		10.9	-.00	-.00	-.02	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
		14.5	-.00	-.01	-.04	.00	-.00	.00	-.00	-.00	-.01	.00	.00	.000
102- 105	W08- 1	0.0	.01	.00	-.01	-.00	.00	-.00	.00	.00	-.00	.00	.00	.000
		3.6	.01	.00	.01	-.00	.00	-.00	.00	.00	.00	.00	.00	.000
		7.2	.01	.00	.03	-.00	.00	-.00	.00	.00	.01	.00	.00	.000
		10.9	.01	.00	.05	-.00	.00	-.00	.00	.00	.01	.00	.00	.000
		14.5	.01	.00	.07	-.00	.00	-.00	.00	.00	.01	.00	.00	.001
103- 105	W18- 1	0.0	-.01	.20	.37	.00	-.00	.00	-.00	.00	.03	.00	.00	.002
		3.6	-.01	.14	.27	.00	-.00	.00	-.00	.00	.02	.00	.00	.001
		7.2	-.01	.09	.16	.00	-.00	.00	-.00	.00	.02	.00	.00	.001
		10.9	-.01	.04	.06	.00	-.00	.00	-.00	.00	.01	.00	.00	.000
		14.5	-.01	-.02	-.05	.00	-.00	.00	-.00	-.00	-.00	.00	.00	.000
103- 203	DKL- 1	0.0	-.00	-.17	-.28	.00	.00	.86	-.00	-.00		.00	.00	.000
		3.8	-.00	-.13	-.38	.00	.00	.86	-.00	-.00		.00	.00	.000
		7.5	-.00	-.09	-.47	.00	.00	.86	-.00	-.00		.00	.00	.000
		11.3	-.00	-.05	-.57	.00	.00	.86	-.00	-.00		.00	.00	.000
		15.0	-.00	-.00	-.67	.00	.00	.86	-.00	-.00		.00	.00	.000

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
104- 105	W06- 1	0.0	-.01	.01	-.02	-.00	-.00	.00	-.00	.00	-.00	.00	.00	.000
		3.6	-.01	.00	.00	-.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		7.3	-.01	.00	.03	-.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		10.9	-.01	-.00	.05	-.00	-.00	.00	-.00	-.00	.01	.00	.00	.001
		14.5	-.01	-.00	.07	-.00	-.00	.00	-.00	-.00	.01	.00	.00	.001
104- 106	W18- 1	0.0	.01	-.01	.32	.01	.00	-.00	.00	-.00	.03	.00	.00	.001
		3.6	.01	.01	.10	.01	.00	-.00	.00	.00	.01	.00	.00	.000
		7.3	.01	.03	-.12	.01	.00	-.00	.00	.00	-.01	.00	.00	.001
		10.9	.01	.05	-.35	.01	.00	-.00	.00	.00	-.03	.00	.00	.002
		14.5	.01	.07	-.57	.01	.00	-.00	.00	.00	-.05	.00	.00	.003
105- 106	W18- 1	0.0	.01	-.01	.09	.00	-.00	-.00	.00	-.00	.01	.00	.00	.000
		3.6	.01	-.07	-.05	.00	-.00	-.00	.00	-.00	-.00	.00	.00	.000
		7.3	.01	-.12	-.18	.00	-.00	-.00	.00	-.00	-.02	.00	.00	.001
		10.9	.01	-.18	-.32	.00	-.00	-.00	.00	-.00	-.03	.00	.00	.001
		14.5	.01	-.24	-.46	.00	-.00	-.00	.00	-.00	-.04	.00	.00	.002
106- 206	URL- 1	0.0	.01	-.30	-.37	-.00	-.00	1.65	.00	.00		.00	.00	.000
		3.8	.01	-.33	-.25	-.00	-.00	1.65	.00	.00		.00	.00	.000
		7.5	.01	-.36	-.13	-.00	-.00	1.65	.00	.00		.00	.00	.000
		11.3	.01	-.40	-.01	-.00	-.00	1.65	.00	.00		.00	.00	.000
		15.0	.01	-.45	.11	-.00	-.00	1.65	.00	.00		.00	.00	.000
201- 202	W18- 1	0.0	-.19	-.00	-.80	-.01	.00	.00	-.01	-.00	-.07	.00	.00	.004
		3.6	-.19	.02	-.51	-.01	.00	.00	-.01	.00	-.05	.00	.00	.003
		7.3	-.19	.05	-.22	-.01	.00	.00	-.01	.00	-.02	.00	.00	.002
		10.9	-.19	.07	.06	-.01	.00	.00	-.01	.00	.01	.00	.00	.001
		14.5	-.19	.10	.35	-.01	.00	.00	-.01	.00	.03	.00	.00	.002
201- 204	W18- 1	0.0	-.04	.19	-.81	-.01	-.00	-.00	-.00	.00	-.08	.00	.00	.004
		3.6	-.04	.15	-.52	-.01	-.00	-.00	-.00	.00	-.05	.00	.00	.002
		7.2	-.04	.12	-.22	-.01	-.00	-.00	-.00	.00	-.02	.00	.00	.001
		10.9	-.04	.08	.07	-.01	-.00	-.00	-.00	.00	.01	.00	.00	.001
		14.5	-.04	.05	.37	-.01	-.00	-.00	-.00	.00	.03	.00	.00	.002
201- 301	URL- 1	0.0	-.05	-2.10	1.96	.14	.03	-6.99	-.00	-.00		.01	.01	.000
		3.8	-.05	-.95	-4.48	.14	.03	-6.99	-.00	-.01		.01	.01	.000
		7.5	-.05	.19	-10.93	.14	.03	-6.99	-.00	-.02		.01	.01	.001
		11.3	-.05	1.34	-17.37	.14	.03	-6.99	-.00	-.03		.01	.01	.001
		15.0	-.05	2.49	-23.81	.14	.03	-6.99	-.00	-.04		.01	.01	.002
201- 303	120- 1	0.0	.08	.36	-1.89	-.00	-.00	.39	.00	.03		.00	.00	.002
		8.2	.08	.11	-1.61	-.00	-.00	.39	.00	.03		.00	.00	.001
		16.3	.08	-.15	-1.32	-.00	-.00	.39	.00	.02		.00	.00	.001
		24.5	.08	-.40	-1.04	-.00	-.00	.39	.00	.02		.00	.00	.001
		32.6	.08	-.66	-.75	-.00	-.00	.39	.00	.02		.00	.00	.001

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
202- 203	W18- 1	0.0	-.19	.09	.32	.00	.00	-.00	-.01	.00	.03	.00	.00	.002
		3.6	-.19	.12	.11	.00	.00	-.00	-.01	.00	.01	.00	.00	.001
		7.3	-.19	.14	-.10	.00	.00	-.00	-.01	.00	-.01	.00	.00	.001
		10.9	-.19	.16	-.31	.00	.00	-.00	-.01	.00	-.03	.00	.00	.002
		14.5	-.19	.19	-.52	.00	.00	-.00	-.01	.00	-.05	.00	.00	.003
202- 204	W08- 1	0.0	-.00	-.01	.05	.00	.00	-.00	-.00	-.00	.01	.00	.00	.000
		3.6	-.00	-.00	.02	.00	.00	-.00	-.00	-.00	.00	.00	.00	.000
		7.2	-.00	-.00	.00	.00	.00	-.00	-.00	-.00	.00	.00	.00	.000
		10.9	-.00	-.00	-.02	.00	.00	-.00	-.00	-.00	-.00	.00	.00	.000
		14.5	-.00	-.00	-.04	.00	.00	-.00	-.00	-.00	-.01	.00	.00	.000
202- 205	W08- 1	0.0	.01	.01	-.01	-.00	-.00	-.00	.00	.00	-.00	.00	.00	.000
		3.6	.01	.00	.01	-.00	-.00	-.00	.00	.00	.00	.00	.00	.000
		7.2	.01	.00	.03	-.00	-.00	-.00	.00	.00	.01	.00	.00	.000
		10.9	.01	.00	.05	-.00	-.00	-.00	.00	.00	.01	.00	.00	.001
		14.5	.01	.00	.07	-.00	-.00	-.00	.00	.00	.01	.00	.00	.001
203- 205	W18- 1	0.0	.06	.29	.40	.00	-.00	.00	.00	.00	.04	.00	.00	.002
		3.6	.06	.21	.29	.00	-.00	.00	.00	.00	.03	.00	.00	.002
		7.2	.06	.13	.17	.00	-.00	.00	.00	.00	.02	.00	.00	.001
		10.9	.06	.06	.05	.00	-.00	.00	.00	.00	.00	.00	.00	.000
		14.5	.06	-.02	-.06	.00	-.00	.00	.00	-.00	-.01	.00	.00	.000
203- 303	DRL- 1	0.0	-.04	.50	-2.19	-.14	-.12	4.30	-.00	-.00		.01	.01	.000
		3.8	-.04	-5.05	4.31	-.14	-.12	4.30	-.00	-.01		.01	.01	.000
		7.5	-.04	-10.61	10.81	-.14	-.12	4.30	-.00	-.02		.01	.01	.001
		11.3	-.04	-16.16	17.31	-.14	-.12	4.30	-.00	-.04		.01	.01	.002
		15.0	-.04	-21.71	23.81	-.14	-.12	4.30	-.00	-.05		.01	.01	.002
203- 306	120- 1	0.0	.07	-.05	2.88	.02	.00	.10	.00	.05		.00	.00	.002
		8.2	.07	.01	1.38	.02	.00	.10	.00	.02		.00	.00	.001
		16.3	.07	.07	-.12	.02	.00	.10	.00	.00		.00	.00	.000
		24.5	.07	.13	-1.62	.02	.00	.10	.00	.03		.00	.00	.001
		32.6	.07	.19	-3.13	.02	.00	.10	.00	.06		.00	.00	.003
204- 205	W08- 1	0.0	-.01	.00	-.02	-.00	-.00	.00	-.00	.00	-.00	.00	.00	.000
		3.6	-.01	.00	.01	-.00	-.00	.00	-.00	.00	.00	.00	.00	.000
		7.3	-.01	.00	.03	-.00	-.00	.00	-.00	.00	.01	.00	.00	.000
		10.9	-.01	-.00	.05	-.00	-.00	.00	-.00	-.00	.01	.00	.00	.001
		14.5	-.01	-.00	.06	-.00	-.00	.00	-.00	-.00	.01	.00	.00	.001
204- 206	W18- 1	0.0	-.04	.04	.34	.01	-.00	-.00	-.00	.00	.03	.00	.00	.002
		3.6	-.04	.01	.10	.01	-.00	-.00	-.00	.00	.01	.00	.00	.001
		7.3	-.04	-.03	-.13	.01	-.00	-.00	-.00	-.00	-.01	.00	.00	.001
		10.9	-.04	-.06	-.36	.01	-.00	-.00	-.00	-.00	-.03	.00	.00	.002
		14.5	-.04	-.09	-.60	.01	-.00	-.00	-.00	-.00	-.06	.00	.00	.003

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /----	BENDING STRESS Y	Z ----KSI----	Y SHEAR STRESS	Z SHEAR STRESS ----/	COMB. UNITY CHECK
205- 206	W15- 1	0.0	.08	-.02	.08	.00	-.00	-.00	.00	-.00	.01	.00	.00	.001
		3.6	.08	-.09	-.05	.00	-.00	-.00	.00	-.00	-.01	.00	.00	.000
		7.3	.08	-.17	-.19	.00	-.00	-.00	.00	-.00	-.02	.00	.00	.001
		10.9	.08	-.25	-.33	.00	-.00	-.00	.00	-.00	-.03	.00	.00	.002
		14.5	.08	-.33	-.47	.00	-.00	-.00	.00	-.00	-.04	.00	.00	.002
206- 301	120- 1	0.0	.01	.15	.20	-.01	-.00	-.48	.00	.00		.00	.00	.000
		8.2	.01	.04	.82	-.01	-.00	-.48	.00	.01		.00	.00	.001
		16.3	.01	-.08	1.44	-.01	-.00	-.48	.00	.03		.00	.00	.001
		24.5	.01	-.20	2.07	-.01	-.00	-.48	.00	.04		.00	.00	.002
		32.6	.01	-.31	2.69	-.01	-.00	-.48	.00	.05		.00	.00	.002
205- 306	URL- 1	0.0	.01	-.83	-.36	-.06	.04	3.12	.00	.00		.00	.00	.000
		3.8	.01	.86	2.11	-.06	.04	3.12	.00	.00		.00	.00	.000
		7.5	.01	2.56	4.59	-.06	.04	3.12	.00	.01		.00	.00	.000
		11.3	.01	4.26	7.07	-.06	.04	3.12	.00	.01		.00	.00	.001
		15.0	.01	5.95	9.55	-.06	.04	3.12	.00	.02		.00	.00	.001
301- 303	123- 1	0.0	.59	-.43	-3.27	-.01	.00	-.16	.03	.06		.00	.00	.004
		7.3	.59	-.41	-2.51	-.01	.00	-.16	.03	.04		.00	.00	.003
		14.5	.59	-.38	-1.75	-.01	.00	-.16	.03	.03		.00	.00	.003
		21.7	.59	-.36	-.99	-.01	.00	-.16	.03	.02		.00	.00	.002
		29.0	.59	-.33	-.23	-.01	.00	-.16	.03	.01		.00	.00	.002
301- 306	123- 1	0.0	.04	-.35	-2.85	-.01	.00	.20	.00	.05		.00	.00	.002
		7.2	.04	-.22	-2.34	-.01	.00	.20	.00	.04		.00	.00	.002
		14.5	.04	-.09	-1.83	-.01	.00	.20	.00	.03		.00	.00	.001
		21.7	.04	.04	-1.32	-.01	.00	.20	.00	.02		.00	.00	.001
		29.0	.04	.17	-.81	-.01	.00	.20	.00	.01		.00	.00	.001
301- 401	URL- 1	0.0	.15	3.50	-27.39	-.28	-.03	-17.79	.00	.04		.02	.02	.002
		7.1	.15	1.03	-3.46	-.28	-.03	-17.79	.00	.01		.02	.02	.000
		14.2	.15	-1.45	20.48	-.28	-.03	-17.79	.00	.03		.02	.02	.001
		21.4	.15	-3.92	44.42	-.28	-.03	-17.79	.00	.07		.02	.02	.003
		28.5	.15	-6.40	68.35	-.28	-.03	-17.79	.00	.11		.02	.02	.005
303- 306	123- 1	0.0	-.34	.25	3.85	.02	-.00	-.18	-.02	-.07		.00	.00	.004
		7.2	-.34	.20	1.80	.02	-.00	-.18	-.02	-.03		.00	.00	.002
		14.5	-.34	.15	-.08	.02	-.00	-.18	-.02	-.00		.00	.00	.001
		21.7	-.34	.10	-2.05	.02	-.00	-.18	-.02	-.04		.00	.00	.003
		29.0	-.34	.05	-4.02	.02	-.00	-.18	-.02	-.07		.00	.00	.004
303- 403	URL- 1	0.0	.00	-22.17	24.83	.33	.17	9.22	.00	.05		.02	.02	.002
		7.1	.00	-7.45	-3.67	.33	.17	9.22	.00	.01		.02	.02	.001
		14.2	.00	7.27	-32.17	.33	.17	9.22	.00	.05		.02	.02	.002
		21.4	.00	22.00	-60.67	.33	.17	9.22	.00	.10		.02	.02	.004
		28.5	.00	36.72	-89.17	.33	.17	9.22	.00	.15		.02	.02	.006

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
300- 400	DKL- 1	0.0	.04	7.18	8.44	.13	-.15	10.76	.00	.02		.01	.01	.001
		7.1	.04	-5.41	-2.51	.13	-.15	10.76	.00	.01		.01	.01	.000
		14.2	.04	-17.99	-13.46	.13	-.15	10.76	.00	.04		.01	.01	.002
		21.4	.04	-30.58	-24.41	.13	-.15	10.76	.00	.06		.01	.01	.003
		28.5	.04	-43.16	-35.36	.13	-.15	10.76	.00	.09		.01	.01	.004
401- 501	JL4- 1	0.0	11.54	30.69	12.08	.72	1.27	-48.54	.05	.01		.02	.02	.003
		1.1	11.54	48.10	2.21	.72	1.27	-48.54	.05	.02		.02	.02	.003
		2.3	11.54	65.51	-7.67	.72	1.27	-48.54	.05	.02		.02	.02	.003
		3.4	11.54	82.92	-17.55	.72	1.27	-48.54	.05	.03		.02	.02	.003
		4.6	11.54	100.34	-27.43	.72	1.27	-48.54	.05	.04		.02	.02	.004
401- 510	P1- 1	0.0	-11.35	31.55	-37.71	-.61	-1.05	26.22	-.05	-.02		.02	.02	.003
		1.1	-11.35	17.18	-29.41	-.61	-1.05	26.22	-.05	-.02		.02	.02	.003
		2.3	-11.35	2.80	-21.11	-.61	-1.05	26.22	-.05	-.01		.02	.02	.003
		3.4	-11.35	-11.58	-12.80	-.61	-1.05	26.22	-.05	-.01		.02	.02	.003
		4.6	-11.35	-25.96	-4.50	-.61	-1.05	26.22	-.05	-.01		.02	.02	.003
403- 503	JL4- 1	0.0	126.21	84.34	16.80	-.68	1.23	44.37	.50	.03		.02	.02	.024
		1.1	126.21	101.16	26.17	-.68	1.23	44.37	.50	.04		.02	.02	.025
		2.3	126.21	117.98	35.54	-.68	1.23	44.37	.50	.04		.02	.02	.025
		3.4	126.21	134.80	44.91	-.68	1.23	44.37	.50	.05		.02	.02	.025
		4.6	126.21	151.62	54.28	-.68	1.23	44.37	.50	.06		.02	.02	.025
403- 511	P1- 1	0.0	-126.39	-23.50	59.23	.46	-1.20	-21.60	-.57	-.03		.02	.02	.028
		1.1	-126.39	-39.98	52.98	.46	-1.20	-21.60	-.57	-.03		.02	.02	.028
		2.3	-126.39	-56.46	46.73	.46	-1.20	-21.60	-.57	-.03		.02	.02	.028
		3.4	-126.39	-72.94	40.48	.46	-1.20	-21.60	-.57	-.04		.02	.02	.028
		4.6	-126.39	-89.42	34.22	.46	-1.20	-21.60	-.57	-.04		.02	.02	.029
405- 506	JL4- 1	0.0	-109.57	-38.96	-25.35	-1.11	1.25	25.75	-.43	-.02		.02	.02	.021
		1.1	-109.57	-21.79	-10.13	-1.11	1.25	25.75	-.43	-.01		.02	.02	.020
		2.3	-109.57	-4.63	5.10	-1.11	1.25	25.75	-.43	-.00		.02	.02	.020
		3.4	-109.57	12.54	20.33	-1.11	1.25	25.75	-.43	-.01		.02	.02	.020
		4.6	-109.57	29.71	35.56	-1.11	1.25	25.75	-.43	-.02		.02	.02	.021
405- 512	P1- 1	0.0	109.58	-4.21	-11.30	1.24	-1.37	-20.94	.50	.01		.02	.02	.023
		1.1	109.58	-22.95	-28.32	1.24	-1.37	-20.94	.50	.02		.02	.02	.024
		2.3	109.58	-41.70	-45.34	1.24	-1.37	-20.94	.50	.03		.02	.02	.024
		3.4	109.58	-60.45	-62.35	1.24	-1.37	-20.94	.50	.04		.02	.02	.025
		4.6	109.58	-79.19	-79.37	1.24	-1.37	-20.94	.50	.05		.02	.02	.025
501- 502	165- 1	0.0	-3.06	2.19	-39.23	-.30	.01	.79	-.10	-.35		.02	.02	.020
		3.8	-3.06	2.54	-25.44	-.30	.01	.79	-.10	-.23		.02	.02	.015
		7.6	-3.06	2.88	-11.64	-.30	.01	.79	-.10	-.11		.02	.02	.010
		11.4	-3.06	3.23	2.15	-.30	.01	.79	-.10	-.03		.02	.02	.007
		15.1	-3.06	3.58	15.94	-.30	.01	.79	-.10	-.15		.02	.02	.012

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	Z ------KSI------	Y SHEAR STRESS	Z SHEAR STRESS ------/	COMB. UNITY CHECK
501- 504	165- 1	0.0	2.52	3.08	-40.52	-.32	-.01	-1.89	.08	.36		.03	.03	.019
		3.8	2.52	2.53	-25.80	-.32	-.01	-1.89	.08	.23		.03	.03	.014
		7.6	2.52	1.97	-11.07	-.32	-.01	-1.89	.08	.10		.03	.03	.008
		11.4	2.52	1.42	3.65	-.32	-.01	-1.89	.08	.04		.03	.03	.005
		15.1	2.52	.86	18.37	-.32	-.01	-1.89	.08	.16		.03	.03	.011
501- 601	JLS- 1	0.0	12.22	119.72	-18.04	-2.30	-1.99	-116.20	.09	.08		.08	.08	.007
		1.5	12.22	83.41	23.85	-2.30	-1.99	-116.20	.09	.05		.08	.08	.006
		3.0	12.22	47.10	65.75	-2.30	-1.99	-116.20	.09	.05		.08	.08	.006
		4.6	12.22	10.78	107.65	-2.30	-1.99	-116.20	.09	.07		.08	.08	.007
		6.1	12.22	-25.53	149.54	-2.30	-1.99	-116.20	.09	.10		.08	.08	.006
501- 622	200- 1	0.0	-2.79	22.72	13.83	.19	-.07	4.93	-.07	-.15		.02	.02	.010
		5.1	-2.79	18.20	2.40	.19	-.07	4.93	-.07	-.10		.02	.02	.008
		10.2	-2.79	13.68	-9.02	.19	-.07	4.93	-.07	-.09		.02	.02	.008
		15.3	-2.79	9.16	-20.45	.19	-.07	4.93	-.07	-.13		.02	.02	.009
		20.4	-2.79	4.64	-31.88	.19	-.07	4.93	-.07	-.18		.02	.02	.011
502- 503	165- 1	0.0	-3.41	3.39	13.93	.19	.02	-.33	-.11	-.13		.01	.01	.012
		3.8	-3.41	4.34	5.49	.19	.02	-.33	-.11	-.06		.01	.01	.009
		7.6	-3.41	5.29	-2.96	.19	.02	-.33	-.11	-.05		.01	.01	.009
		11.4	-3.41	6.24	-11.40	.19	.02	-.33	-.11	-.12		.01	.01	.011
		15.1	-3.41	7.18	-19.84	.19	.02	-.33	-.11	-.19		.01	.01	.014
502- 504	105- 1	0.0	-.06	.64	1.95	.02	-.01	.01	-.00	-.07		.00	.00	.003
		3.8	-.06	.28	1.03	.02	-.01	.01	-.00	-.04		.00	.00	.002
		7.6	-.06	-.08	.10	.02	-.01	.01	-.00	-.00		.00	.00	.000
		11.4	-.06	-.44	-.82	.02	-.01	.01	-.00	-.03		.00	.00	.002
		15.2	-.06	-.81	-1.75	.02	-.01	.01	-.00	-.06		.00	.00	.003
502- 505	105- 1	0.0	.61	.76	.06	-.01	-.01	-.17	.05	.03		.00	.00	.003
		3.8	.61	.52	.45	-.01	-.01	-.17	.05	.02		.00	.00	.003
		7.6	.61	.28	.83	-.01	-.01	-.17	.05	.03		.00	.00	.004
		11.4	.61	.04	1.22	-.01	-.01	-.17	.05	.04		.00	.00	.004
		15.2	.61	-.20	1.60	-.01	-.01	-.17	.05	.05		.00	.00	.005
503- 505	165- 1	0.0	-2.33	5.78	15.57	.09	-.03	1.97	-.08	-.15		.02	.02	.011
		3.8	-2.33	4.27	11.58	.09	-.03	1.97	-.08	-.11		.02	.02	.009
		7.6	-2.33	2.76	7.58	.09	-.03	1.97	-.08	-.07		.02	.02	.007
		11.4	-2.33	1.25	3.58	.09	-.03	1.97	-.08	-.03		.02	.02	.006
		15.1	-2.33	-.25	-.41	.09	-.03	1.97	-.08	-.00		.02	.02	.004
503- 603	JLS- 1	0.0	115.07	78.71	29.93	1.96	-.35	93.34	.81	.05		.06	.06	.039
		1.5	115.07	72.26	-5.87	1.96	-.35	93.34	.81	.05		.06	.06	.039
		3.0	115.07	65.81	-41.67	1.96	-.35	93.34	.81	.05		.06	.06	.039
		4.6	115.07	59.36	-77.46	1.96	-.35	93.34	.81	.06		.06	.06	.040
		6.1	115.07	52.91	-113.26	1.96	-.35	93.34	.81	.08		.06	.06	.041

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LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
503-625	200-1	0.0	7.92	60.18	26.01	.10	-.45	3.95	.21	.37		.04	.04	.025
		5.1	7.92	32.72	19.83	.10	-.45	3.95	.21	.21		.04	.04	.019
		10.1	7.92	5.27	13.66	.10	-.45	3.95	.21	.08		.04	.04	.013
		15.2	7.92	-22.18	7.49	.10	-.45	3.95	.21	.13		.04	.04	.015
		20.3	7.92	-49.63	1.31	.10	-.45	3.95	.21	.26		.04	.04	.021
504-505	105-1	0.0	-.57	.09	-.39	-.01	.00	.17	-.05	-.01		.00	.00	.003
		3.8	-.57	.19	.17	-.01	.00	.17	-.05	-.01		.00	.00	.003
		7.6	-.57	.29	.73	-.01	.00	.17	-.05	-.03		.00	.00	.004
		11.4	-.57	.39	1.29	-.01	.00	.17	-.05	-.05		.00	.00	.004
		15.2	-.57	.49	1.85	-.01	.00	.17	-.05	-.06		.00	.00	.005
504-506	165-1	0.0	2.78	.25	17.02	.23	-.02	-2.58	.09	.15		.03	.03	.011
		3.8	2.78	-.77	6.41	.23	-.02	-2.58	.09	.06		.03	.03	.007
		7.6	2.78	-1.78	-4.19	.23	-.02	-2.58	.09	.04		.03	.03	.006
		11.4	2.78	-2.80	-14.79	.23	-.02	-2.58	.09	.13		.03	.03	.010
		15.2	2.78	-3.82	-25.40	.23	-.02	-2.58	.09	.23		.03	.03	.014
505-506	165-1	0.0	-1.73	-.61	3.03	.12	-.04	1.55	-.06	-.03		.02	.02	.004
		3.8	-1.73	-2.26	-2.60	.12	-.04	1.55	-.06	-.03		.02	.02	.004
		7.6	-1.73	-3.91	-8.24	.12	-.04	1.55	-.06	-.08		.02	.02	.007
		11.4	-1.73	-5.56	-13.88	.12	-.04	1.55	-.06	-.13		.02	.02	.009
		15.2	-1.73	-7.21	-19.51	.12	-.04	1.55	-.06	-.19		.02	.02	.011
506-606	JL5-1	0.0	-107.16	28.00	-19.64	.41	-1.92	21.85	-.75	-.02		.03	.03	.036
		1.5	-107.16	-6.41	-27.07	.41	-1.92	21.85	-.75	-.02		.03	.03	.036
		3.0	-107.16	-41.42	-34.51	.41	-1.92	21.85	-.75	-.03		.03	.03	.036
		4.6	-107.16	-76.43	-41.95	.41	-1.92	21.85	-.75	-.05		.03	.03	.037
		6.1	-107.16	-111.44	-49.38	.41	-1.92	21.85	-.75	-.08		.03	.03	.038
506-624	200-1	0.0	-5.08	37.79	-54.54	-.41	-.27	-7.20	-.13	-.37		.05	.05	.022
		5.1	-5.08	21.17	-29.62	-.41	-.27	-7.20	-.13	-.20		.05	.05	.015
		10.1	-5.08	4.55	-4.71	-.41	-.27	-7.20	-.13	-.04		.05	.05	.008
		15.2	-5.08	-12.07	20.21	-.41	-.27	-7.20	-.13	-.13		.05	.05	.012
		20.2	-5.08	-28.52	44.91	-.38	-.22	-7.20	-.13	-.30		.04	.04	.019
510-710	P1-1	0.0	-11.35	-25.96	-4.65	-1.97	-.42	26.20	-.05	-.01		.02	.02	.003
		6.3	-11.35	-57.79	144.82	-1.97	-.42	26.20	-.05	-.07		.02	.02	.006
		12.7	-11.35	-89.63	294.29	-1.97	-.42	26.20	-.05	-.14		.02	.02	.009
		19.0	-11.35	-121.47	443.75	-1.97	-.42	26.20	-.05	-.22		.02	.02	.012
		25.3	-11.35	-153.30	593.22	-1.97	-.42	26.20	-.05	-.29		.02	.02	.015
511-711	P1-1	0.0	-126.39	-89.23	34.77	1.94	1.97	-21.52	-.57	-.04		.03	.03	.030
		6.3	-126.39	60.74	-112.66	1.94	1.97	-21.52	-.57	-.06		.03	.03	.030
		12.7	-126.39	210.70	-260.09	1.94	1.97	-21.52	-.57	-.16		.03	.03	.034
		19.0	-126.39	360.66	-407.52	1.94	1.97	-21.52	-.57	-.25		.03	.03	.039
		25.3	-126.39	510.62	-554.95	1.94	1.97	-21.52	-.57	-.35		.03	.03	.043

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y	Z -------KSI-------	Y SHEAR STRESS	Z SHEAR STRESS -------/	COMB. UNITY CHECK
512- 712	P1- 1	0.0	109.58	-79.19	-79.36	-.40	-.97	-20.98	.50	.05		.01	.01	.025
		6.3	109.58	-152.87	-48.62	-.40	-.97	-20.98	.50	.08		.01	.01	.026
		12.7	109.58	-226.55	-17.87	-.40	-.97	-20.98	.50	.11		.01	.01	.027
		19.0	109.58	-300.22	12.87	-.40	-.97	-20.98	.50	.14		.01	.01	.029
		25.3	109.58	-373.90	43.62	-.40	-.97	-20.98	.50	.18		.01	.01	.030
601- 621	JL6- 1	0.0	11.53	-34.47	122.41	-1.76	-1.61	-144.78	.08	.08		.08	.08	.007
		1.5	11.53	-63.86	154.53	-1.76	-1.61	-144.78	.08	.11		.08	.08	.008
		3.0	11.53	-93.25	186.65	-1.76	-1.61	-144.78	.08	.13		.08	.08	.009
		4.6	11.53	-122.64	218.77	-1.76	-1.61	-144.78	.08	.16		.08	.08	.010
		6.1	11.53	-152.03	250.89	-1.76	-1.61	-144.78	.08	.18		.08	.08	.011
603- 623	JL6- 1	0.0	114.19	39.43	-75.69	1.59	-.13	114.72	.80	.05		.06	.06	.039
		1.5	114.19	37.02	-104.63	1.59	-.13	114.72	.80	.07		.06	.06	.040
		3.0	114.19	34.62	-133.57	1.59	-.13	114.72	.80	.09		.06	.06	.041
		4.6	114.19	32.21	-162.52	1.59	-.13	114.72	.80	.10		.06	.06	.041
		6.1	114.19	29.81	-191.46	1.59	-.13	114.72	.80	.12		.06	.06	.042
606- 626	JL6- 1	0.0	-107.16	-111.44	-49.31	.41	-2.27	22.01	-.75	-.08		.04	.04	.038
		1.5	-107.16	-152.77	-56.75	.41	-2.27	22.01	-.75	-.10		.04	.04	.039
		3.0	-107.16	-194.10	-64.18	.41	-2.27	22.01	-.75	-.13		.04	.04	.040
		4.6	-107.18	-235.25	-71.49	.36	-2.19	22.01	-.75	-.15		.04	.04	.042
		6.1	-107.28	-273.44	-76.97	.15	-1.85	22.01	-.75	-.18		.03	.03	.043
621- 651	JL6- 1	0.0	11.53	-150.91	251.43	-1.76	-1.59	-145.01	.08	.18		.08	.08	.011
		1.5	11.54	-179.76	282.01	-1.45	-1.57	-145.01	.08	.21		.08	.08	.013
		3.0	11.54	-208.12	303.20	-.87	-1.54	-145.01	.08	.23		.07	.07	.013
		4.6	11.55	-235.95	313.95	-.31	-1.51	-145.01	.08	.25		.07	.07	.014
		6.1	11.55	-263.30	314.37	.26	-1.49	-145.01	.08	.26		.07	.07	.015
622- 703	200- 1	0.0	-2.79	4.66	-31.81	.19	-.11	5.30	-.07	-.18		.03	.03	.011
		5.4	-2.79	-2.07	-43.18	.08	-.09	5.30	-.07	-.24		.02	.02	.014
		10.9	-2.80	-5.78	-35.88	-.30	-.03	5.30	-.07	-.20		.03	.03	.012
		16.3	-2.78	-6.17	-3.53	-.69	.01	5.30	-.07	-.04		.05	.05	.005
		21.8	-2.78	-5.44	55.12	-1.04	.01	5.30	-.07	-.30		.07	.07	.016
623- 653	JL6- 1	0.0	114.19	30.66	-191.15	1.49	.04	115.02	.80	.12		.06	.06	.042
		1.5	114.19	31.32	-218.38	1.49	.04	115.02	.80	.14		.06	.06	.043
		3.0	114.19	31.98	-245.61	1.49	.04	115.02	.80	.16		.06	.06	.044
		4.6	114.09	30.46	-271.44	1.50	-.27	115.02	.80	.17		.05	.05	.044
		6.1	113.97	21.90	-292.76	1.04	-.67	115.02	.80	.18		.05	.05	.045
624- 701	200- 1	0.0	-5.08	-28.33	44.91	-.38	-.22	-7.19	-.13	-.30		.04	.04	.019
		5.5	-5.09	-32.42	58.29	-.03	.09	-7.19	-.13	-.37		.02	.02	.022
		11.0	-5.09	-17.74	48.54	.33	.35	-7.19	-.13	-.29		.05	.05	.019
		16.5	-5.09	12.71	14.75	.70	.56	-7.19	-.13	-.11		.07	.07	.011
		21.9	-5.09	55.58	-43.15	1.05	.73	-7.19	-.13	-.39		.09	.09	.023

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
625- 706	200- 1	0.0	7.92	-49.65	1.29	.10	-.45	3.92	.21	.28		.04	.04	.021
		5.5	7.92	-64.30	-4.97	.09	.06	3.92	.21	.36		.02	.02	.025
		11.0	7.92	-41.95	-10.14	.07	.61	3.92	.21	.24		.04	.04	.020
		16.4	7.92	16.09	-13.58	.04	1.15	3.92	.21	.12		.07	.07	.015
		21.9	7.91	106.49	-15.15	.00	1.65	3.92	.21	.61		.10	.10	.035
626- 656	JL6- 1	0.0	-107.26	-273.06	-76.77	.21	-1.76	21.89	-.75	-.18		.03	.03	.043
		1.5	-107.08	-300.86	-77.73	-.11	-1.27	21.89	-.75	-.20		.02	.02	.043
		3.0	-106.91	-319.49	-72.92	-.42	-.77	21.89	-.75	-.21		.02	.02	.044
		4.6	-106.75	-329.05	-62.43	-.73	-.28	21.89	-.75	-.21		.02	.02	.044
		6.1	-106.59	-329.69	-46.32	-1.04	.21	21.89	-.75	-.21		.02	.02	.044
651- 701	JL6- 1	0.0	11.36	-266.74	281.74	2.47	-.66	-187.15	.08	.24		.09	.09	.014
		1.8	11.35	-283.18	222.08	3.13	-.69	-187.15	.08	.23		.10	.10	.013
		3.5	11.35	-298.19	148.61	3.77	-.72	-187.15	.08	.21		.11	.11	.012
		5.3	11.35	-313.74	61.55	4.40	-.74	-187.15	.08	.20		.12	.12	.012
		7.1	11.34	-329.65	-38.89	5.03	-.77	-187.15	.08	.21		.13	.13	.012
653- 703	JL6- 1	0.0	119.75	65.58	-290.90	-.32	-1.03	135.13	.84	.19		.06	.06	.047
		1.8	119.75	37.85	-281.07	-.60	-1.57	135.13	.84	.18		.07	.07	.046
		3.5	119.76	-1.19	-265.18	-.89	-2.10	135.13	.84	.17		.07	.07	.046
		5.3	119.76	-51.38	-243.37	-1.16	-2.62	135.13	.84	.16		.08	.08	.045
		7.1	119.76	-112.53	-215.75	-1.43	-3.13	135.13	.84	.15		.09	.09	.045
656- 706	JL6- 1	0.0	-106.59	-329.69	-46.33	-1.04	.26	21.87	-.75	-.21		.02	.02	.044
		1.8	-106.59	-317.75	-20.36	-1.40	.86	21.87	-.75	-.20		.03	.03	.043
		3.5	-106.59	-292.97	13.36	-1.76	1.46	21.87	-.75	-.18		.04	.04	.043
		5.3	-106.59	-255.55	54.63	-2.11	2.05	21.87	-.75	-.16		.05	.05	.042
		7.1	-106.59	-205.70	103.27	-2.46	2.63	21.87	-.75	-.14		.06	.06	.041
701- 702	137- 1	0.0	-9.47	134.11	-17.96	.07	-1.56	11.16	-.49	-2.39		.26	.26	.133
		4.7	-9.47	53.91	-18.21	-.07	-1.29	11.16	-.49	-1.00		.23	.23	.075
		9.4	-9.47	-11.11	-10.51	-.21	-1.02	11.16	-.49	-.27		.21	.21	.044
		14.1	-9.47	-61.62	5.10	-.35	-.77	11.16	-.49	-1.09		.19	.19	.079
		18.8	-9.47	-96.26	28.65	-.49	-.53	11.16	-.49	-1.80		.17	.17	.109
701- 704	137- 1	0.0	.79	156.59	-19.88	.03	-1.81	-8.18	.04	2.82		.26	.26	.121
		4.7	.78	64.95	-18.36	-.08	-1.52	-8.18	.04	1.19		.23	.23	.052
		9.4	.77	-12.21	-10.95	-.18	-1.22	-8.18	.04	.29		.20	.20	.014
		14.1	.77	-72.22	2.35	-.29	-.91	-8.18	.04	1.27		.17	.17	.055
		18.8	.76	-114.43	21.54	-.39	-.59	-8.18	.04	2.05		.15	.15	.088
701- 801	JL7- 1	0.0	-4.45	76.94	78.51	-4.03	-.31	-102.56	-.06	-.14		.18	.18	.009
		7.1	-4.46	47.23	320.82	-1.68	-.39	-102.56	-.06	-.41		.11	.11	.020
		14.2	-4.48	9.90	368.67	.54	-.49	-102.56	-.06	-.47		.09	.09	.023
		21.3	-4.49	-35.57	232.26	2.65	-.58	-102.56	-.06	-.30		.14	.14	.016
		28.4	-4.51	-86.94	-80.99	4.69	-.67	-102.55	-.06	-.15		.20	.20	.010

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 8

PAGE 129
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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE FY KIPS	----/ FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /----	BENDING STRESS Y	Z ----KSI----	Y SHEAR STRESS	Z SHEAR STRESS ----/	COMB. UNITY CHECK
701- 806	200- 1	0.0	13.63	130.08	89.22	1.21	-1.53	4.58	.36	.89		.12	.12	.054
		12.5	13.62	-33.82	-43.74	.56	-.68	4.58	.36	.31		.06	.06	.030
		25.1	13.59	-81.19	-81.51	-.05	.03	4.58	.36	.64		.02	.02	.044
		37.6	13.54	-29.91	-30.50	-.62	.63	4.58	.36	.24		.06	.06	.027
		50.2	13.52	109.67	100.54	-1.11	1.23	4.58	.36	.83		.10	.10	.052
702- 703	137- 1	0.0	-10.09	-95.61	20.13	.42	.56	-12.02	-.52	-1.72		.18	.18	.107
		4.7	-10.09	-57.58	.39	.28	.79	-12.02	-.52	-1.02		.19	.19	.076
		9.4	-10.09	-7.02	-10.77	.12	1.01	-12.02	-.52	-.25		.21	.21	.044
		14.1	-10.09	55.42	-12.69	-.05	1.21	-12.02	-.52	-1.00		.23	.23	.077
		18.8	-10.09	129.08	-4.71	-.23	1.40	-12.02	-.52	-2.28		.25	.25	.131
702- 704	107- 1	0.0	.25	16.04	-.43	.00	-.57	.46	.02	.54		.10	.10	.024
		4.7	.25	-9.41	-.61	.00	-.33	.46	.02	.32		.06	.06	.014
		9.4	.25	-20.35	-.79	.00	-.06	.46	.02	.68		.02	.02	.030
		14.1	.25	-15.47	-.98	.00	.24	.46	.02	.52		.05	.05	.023
		18.8	.25	6.56	-1.16	.00	.55	.46	.02	.22		.10	.10	.010
702- 705	107- 1	0.0	.97	11.15	8.94	.29	-.52	-.23	.08	.48		.10	.10	.024
		4.7	.98	-11.35	-2.62	.13	-.28	-.23	.08	.39		.06	.06	.020
		9.4	.98	-19.99	-5.59	-.02	-.03	-.23	.08	.69		.01	.01	.033
		14.1	.98	-14.12	-.87	-.15	.24	-.23	.08	.47		.05	.05	.024
		18.8	.98	6.92	10.64	-.26	.51	-.23	.08	.42		.10	.10	.022
703- 705	137- 1	0.0	4.52	141.03	22.01	.16	-1.52	10.43	.24	2.52		.25	.25	.117
		4.7	4.52	60.83	12.79	.16	-1.32	10.43	.24	1.10		.23	.23	.057
		9.4	4.52	-7.49	3.57	.16	-1.10	10.43	.24	.15		.21	.21	.017
		14.1	4.52	-62.62	-5.66	.16	-.85	10.43	.24	1.11		.18	.18	.058
		18.8	4.52	-103.25	-14.88	.16	-.59	10.43	.24	1.84		.16	.16	.088
703- 801	200- 1	0.0	14.68	120.19	-154.63	-1.70	-1.25	-6.13	.39	1.10		.13	.13	.064
		12.5	14.63	-16.19	36.10	-.85	-.58	-6.13	.38	.22		.07	.07	.027
		25.1	14.62	-56.59	105.25	-.07	-.00	-6.13	.38	.67		.02	.02	.046
		37.6	14.59	-23.37	58.73	.69	.45	-6.13	.38	.35		.06	.06	.033
		50.2	14.56	77.45	-97.57	1.37	.89	-6.13	.38	.70		.10	.10	.047
703- 803	JL7- 1	0.0	106.32	263.55	-181.56	1.05	2.16	1.58	1.50	.41		.07	.07	.087
		7.1	106.30	366.70	-227.90	.04	.28	1.58	1.50	.55		.01	.01	.093
		14.2	106.29	313.92	-168.83	-.95	-1.50	1.58	1.50	.47		.05	.05	.089
		21.3	106.29	112.90	-66.80	-1.91	-3.21	1.58	1.50	.17		.11	.11	.077
		28.4	106.31	-230.37	134.70	-2.82	-4.84	1.58	1.50	.34		.16	.16	.084
704- 705	107- 1	0.0	-1.09	10.92	9.95	.23	-.60	-.24	-.09	-.49		.11	.11	.026
		4.7	-1.09	-13.82	-.03	.13	-.28	-.24	-.09	-.46		.06	.06	.025
		9.4	-1.09	-20.74	-4.07	.02	.03	-.24	-.09	-.71		.01	.01	.035
		14.1	-1.09	-10.51	-1.51	-.11	.33	-.24	-.09	-.36		.06	.06	.020
		18.8	-1.09	16.22	8.30	-.24	.62	-.24	-.09	-.61		.12	.12	.031

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 8

PAGE 130
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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS (KSI)	BENDING STRESS Y (KSI)	BENDING STRESS Z (KSI)	Y SHEAR STRESS (KSI)	Z SHEAR STRESS (KSI)	COMB. UNITY CHECK
704- 706	157- 1	0.0	1.63	-116.80	10.45	.23	.57	7.35	.08	2.07		.13	.13	.091
		4.7	1.63	-75.63	.36	.13	.90	7.35	.08	1.33		.16	.16	.060
		9.4	1.63	-15.32	-4.39	.04	1.25	7.35	.08	.28		.19	.19	.016
		14.1	1.64	64.80	-4.38	-.04	1.60	7.35	.09	1.15		.23	.23	.052
		18.8	1.65	165.38	-.20	-.11	1.97	7.35	.09	2.92		.27	.27	.127
705- 706	157- 1	0.0	6.00	-108.31	4.07	.05	.54	-9.63	.31	1.91		.14	.14	.095
		4.7	6.00	-69.62	1.05	.05	.83	-9.63	.31	1.23		.17	.17	.066
		9.4	6.00	-14.42	-1.96	.05	1.13	-9.63	.31	.26		.20	.20	.025
		14.1	6.00	57.94	-4.97	.05	1.44	-9.63	.31	1.05		.23	.23	.058
		18.8	6.00	148.12	-7.98	.05	1.76	-9.63	.31	2.62		.27	.27	.125
706- 803	200- 1	0.0	-26.68	17.00	44.35	.27	-.45	2.49	-.70	-.27		.03	.03	.054
		12.5	-26.70	-7.40	10.36	.18	.05	2.49	-.70	-.07		.02	.02	.046
		25.1	-26.70	12.31	-9.95	.10	.16	2.49	-.70	-.09		.02	.02	.047
		37.6	-26.72	25.56	-20.37	.04	.02	2.49	-.70	-.20		.01	.01	.051
		50.2	-26.75	6.52	-27.42	-.01	-.35	2.49	-.70	-.13		.02	.02	.048
705- 806	JL7- 1	0.0	-93.51	173.55	156.97	2.88	-5.00	89.63	-1.32	-.30		.22	.22	.077
		7.1	-93.51	-159.26	-31.48	1.56	-2.83	89.63	-1.32	-.21		.15	.15	.073
		14.2	-93.53	-311.26	-111.15	.32	-.76	89.63	-1.32	-.42		.08	.08	.082
		21.3	-93.54	-291.48	-88.10	-.85	1.20	89.63	-1.32	-.39		.10	.10	.081
		28.4	-93.54	-109.29	31.63	-1.95	3.06	89.63	-1.32	-.14		.16	.16	.071
710- 810	P2- 1	0.0	-11.35	-152.42	593.46	-.08	.77	26.00	-.05	-.26		.01	.01	.013
		7.1	-11.35	-86.94	600.65	-.08	.77	26.00	-.05	-.25		.01	.01	.013
		14.2	-11.35	-21.46	607.84	-.08	.77	26.00	-.05	-.25		.01	.01	.013
		21.3	-11.35	44.02	615.04	-.08	.77	26.00	-.05	-.26		.01	.01	.013
		28.4	-11.35	109.50	622.23	-.08	.77	26.00	-.05	-.26		.01	.01	.013
711- 811	P2- 1	0.0	-126.39	511.44	-554.21	-1.05	.25	-21.18	-.50	-.31		.01	.01	.038
		7.1	-126.39	532.57	-464.95	-1.05	.25	-21.18	-.50	-.29		.01	.01	.037
		14.2	-126.39	553.70	-375.69	-1.05	.25	-21.18	-.50	-.28		.01	.01	.036
		21.3	-126.39	574.83	-286.42	-1.05	.25	-21.18	-.50	-.27		.01	.01	.036
		28.4	-126.39	595.96	-197.16	-1.05	.25	-21.18	-.50	-.26		.01	.01	.036
712- 812	P2- 1	0.0	109.56	-373.90	43.61	1.25	-.90	-20.99	.44	.16		.02	.02	.027
		7.1	109.56	-450.82	-62.52	1.25	-.90	-20.99	.44	.19		.02	.02	.028
		14.2	109.56	-527.75	-168.66	1.25	-.90	-20.99	.44	.23		.02	.02	.030
		21.3	109.56	-604.68	-274.79	1.25	-.90	-20.99	.44	.28		.02	.02	.032
		28.4	109.56	-681.61	-380.92	1.25	-.90	-20.99	.44	.33		.02	.02	.034
801- 802	148- 1	0.0	-1.25	71.41	-55.62	.07	-.70	8.19	-.06	-1.15		.13	.13	.053
		5.7	-1.25	27.44	-34.33	-.10	-.59	8.19	-.06	-.68		.12	.12	.031
		11.4	-1.25	-8.74	-21.35	-.28	-.47	8.19	-.06	-.33		.11	.11	.018
		17.1	-1.25	-37.12	3.31	-.45	-.36	8.19	-.06	-.54		.11	.11	.027
		22.8	-1.25	-57.72	39.66	-.62	-.24	8.19	-.06	-1.01		.12	.12	.047

S T R A N   M E M B E R   D E T A I L   R E P O R T

LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y --------	Z KSI	Y SHEAR STRESS --------	Z SHEAR STRESS -------/	COMB. UNITY CHECK
801- 804	14B- 1	0.0	10.22	102.20	-39.93	-.03	-.90	-3.00	.48	1.59		.11	.11	.089
		5.7	10.21	44.64	-33.26	-.16	-.78	-3.00	.48	.81		.10	.10	.056
		11.4	10.20	-4.15	-17.89	-.29	-.64	-3.00	.48	.27		.09	.09	.033
		17.1	10.20	-43.20	6.17	-.42	-.50	-3.00	.48	.63		.08	.08	.049
		22.8	10.19	-71.53	38.93	-.54	-.33	-3.00	.48	1.18		.08	.08	.072
801- 901	JLB- 1	0.0	13.23	112.38	-85.53	-4.15	-.31	-6.68	.19	.18		.12	.12	.016
		8.1	13.22	77.66	208.10	-1.90	-.39	-6.68	.19	.28		.06	.06	.021
		16.2	13.21	37.28	286.34	.28	-.43	-6.68	.19	.37		.02	.02	.024
		24.3	13.21	-5.77	155.78	2.39	-.46	-6.68	.19	.20		.07	.07	.017
		32.4	13.20	-52.02	-177.95	4.45	-.50	-6.68	.19	.24		.13	.13	.019
801- 903	20D- 1	0.0	-21.56	-40.79	115.52	1.59	.26	7.54	-.57	-.69		.10	.10	.067
		14.9	-21.57	1.93	-66.77	.65	.20	7.54	-.57	-.37		.06	.06	.054
		29.8	-21.55	25.85	-116.10	-.10	.05	7.54	-.57	-.67		.03	.03	.066
		44.7	-21.61	16.48	-33.21	-.83	-.16	7.54	-.57	-.21		.07	.07	.047
		59.6	-21.68	-32.71	173.76	-1.47	-.39	7.54	-.57	-.99		.10	.10	.080
802- 803	14B- 1	0.0	-2.18	-54.71	24.90	.44	.29	-9.88	-.10	-.87		.12	.12	.044
		5.7	-2.18	-31.01	.86	.27	.40	-9.88	-.10	-.45		.12	.12	.026
		11.4	-2.18	-.49	-11.49	.10	.49	-9.88	-.10	-.17		.12	.12	.014
		17.1	-2.18	35.88	-12.16	-.08	.57	-9.88	-.10	-.55		.13	.13	.030
		22.8	-2.18	77.11	-1.14	-.25	.63	-9.88	-.10	-1.12		.14	.14	.054
802- 804	10B- 1	0.0	-.01	13.16	2.12	.01	-.30	-.49	-.00	-.45		.06	.06	.019
		5.7	-.01	-3.16	1.30	.01	-.18	-.49	-.00	-.11		.04	.04	.005
		11.4	-.01	-10.72	.49	.01	-.04	-.49	-.00	-.36		.02	.02	.015
		17.1	-.01	-8.55	-.33	.01	.11	-.49	-.00	-.29		.03	.03	.012
		22.8	-.01	4.37	-1.14	.01	.27	-.49	-.00	-.15		.05	.05	.006
802- 805	10B- 1	0.0	1.37	7.14	12.64	.26	-.24	.49	.12	.49		.07	.07	.026
		5.7	1.36	-5.26	-.58	.13	-.12	.49	.11	.18		.04	.04	.013
		11.4	1.36	-9.06	-5.10	.00	-.01	.49	.11	.37		.01	.01	.021
		17.1	1.35	-6.07	-.92	-.12	.10	.49	.11	.23		.04	.04	.015
		22.8	1.34	4.31	11.96	-.25	.22	.49	.11	.43		.06	.06	.023
803- 805	14B- 1	0.0	-9.31	87.08	17.20	.08	-.70	7.89	-.44	-1.29		.12	.12	.086
		5.7	-9.31	41.97	11.51	.08	-.63	7.89	-.44	-.63		.12	.12	.056
		11.4	-9.31	2.09	5.82	.08	-.53	7.89	-.44	-.09		.11	.11	.035
		17.1	-9.31	-30.32	.12	.08	-.42	7.89	-.44	-.44		.10	.10	.050
		22.8	-9.31	-54.94	-5.57	.08	-.30	7.89	-.44	-.80		.09	.09	.065
803- 903	JLB- 1	0.0	67.49	57.09	38.93	1.75	2.54	64.24	.95	.10		.13	.13	.048
		8.1	67.50	226.82	-82.69	.76	.75	64.24	.95	.31		.07	.07	.057
		16.2	67.48	215.99	-110.00	-.19	-.96	64.24	.95	.31		.07	.07	.057
		24.3	67.45	42.10	-47.29	-1.10	-2.60	64.24	.95	.08		.12	.12	.048
		32.4	67.44	-283.12	105.42	-2.00	-4.19	64.24	.95	.39		.17	.17	.061

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	Z ---KSI---	Y SHEAR STRESS	Z SHEAR STRESS ------/	COMB. UNITY CHECK
803- 906	200- 1	0.0	41.03	154.94	46.14	.14	-1.25	-.42	1.08	.90		.07	.07	.088
		14.9	41.02	-10.15	21.75	.14	-.61	-.42	1.08	.13		.03	.03	.056
		29.8	41.04	-69.60	-2.59	.15	-.06	-.42	1.08	.39		.01	.01	.056
		44.7	40.98	-36.31	-21.29	.07	.43	-.42	1.08	.24		.02	.02	.060
		59.6	40.91	84.35	-28.77	.01	.92	-.42	1.08	.50		.05	.05	.071
804- 805	108- 1	0.0	-1.21	3.65	9.46	.22	-.28	-.31	-.10	-.34		.06	.06	.021
		5.7	-1.21	-9.45	-1.66	.11	-.11	-.31	-.10	-.32		.03	.03	.020
		11.4	-1.21	-12.00	-4.98	-.01	.04	-.31	-.10	-.43		.01	.01	.025
		17.1	-1.21	-4.61	-.51	-.12	.17	-.31	-.10	-.16		.04	.04	.013
		22.8	-1.21	11.16	11.76	-.24	.29	-.31	-.10	-.54		.07	.07	.029
804- 806	148- 1	0.0	10.99	-70.57	28.33	.41	.22	3.99	.52	1.10		.07	.07	.070
		5.7	10.98	-49.67	4.63	.29	.40	3.99	.52	.72		.07	.07	.054
		11.4	10.99	-16.12	-11.22	.18	.59	3.99	.52	.28		.09	.09	.036
		17.1	11.00	31.08	-20.06	.08	.79	3.99	.52	.54		.10	.10	.047
		22.8	11.01	92.69	-22.72	-.00	1.02	3.99	.52	1.38		.12	.12	.082
805- 806	148- 1	0.0	-7.61	-58.20	18.15	.19	.21	-5.09	-.36	-.88		.06	.06	.063
		5.7	-7.61	-39.97	5.48	.19	.33	-5.09	-.36	-.58		.07	.07	.050
		11.4	-7.61	-12.96	-7.20	.19	.46	-5.09	-.36	-.21		.08	.08	.035
		17.1	-7.61	23.78	-19.87	.19	.61	-5.09	-.36	-.45		.10	.10	.044
		22.8	-7.61	71.25	-32.55	.19	.78	-5.09	-.36	-1.13		.11	.11	.073
805- 901	200- 1	0.0	-21.89	-3.86	-145.61	-1.54	-.27	-7.02	-.58	-.82		.09	.09	.073
		14.9	-21.90	-25.17	40.14	-.73	.01	-7.02	-.58	-.27		.06	.06	.050
		29.8	-21.91	-8.48	111.13	-.06	.15	-7.02	-.58	-.62		.03	.03	.065
		44.7	-21.93	17.69	56.54	.67	.13	-7.02	-.58	-.33		.06	.06	.052
		59.6	-21.93	33.20	-130.44	1.42	.03	-7.02	-.58	-.75		.09	.09	.070
806- 906	JL8- 1	0.0	-77.61	113.62	-19.49	2.14	-3.65	-65.55	-1.10	-.15		.16	.16	.060
		8.1	-77.60	-143.36	-169.04	.94	-1.64	-65.55	-1.10	-.28		.10	.10	.056
		16.2	-77.61	-208.27	-204.15	-.21	.29	-65.55	-1.10	-.37		.05	.05	.070
		24.3	-77.63	-88.91	-128.71	-1.33	2.15	-65.55	-1.10	-.20		.11	.11	.062
		32.4	-77.56	206.95	53.28	-2.40	3.92	-65.55	-1.10	-.27		.17	.17	.066
810- 910	P2- 1	0.0	-11.35	108.61	622.33	1.26	-.08	26.49	-.05	-.26		.02	.02	.013
		8.1	-11.35	101.25	499.69	1.26	-.08	26.49	-.05	-.21		.02	.02	.011
		16.2	-11.35	93.69	377.05	1.26	-.08	26.49	-.05	-.16		.02	.02	.009
		24.3	-11.35	86.12	254.41	1.26	-.08	26.49	-.05	-.11		.02	.02	.007
		32.4	-11.35	78.56	131.78	1.26	-.08	26.49	-.05	-.06		.02	.02	.005
811- 911	P2- 1	0.0	-126.39	595.74	-197.80	-.80	-2.36	-21.43	-.50	-.26		.02	.02	.036
		8.1	-126.39	366.32	-119.90	-.80	-2.36	-21.43	-.50	-.16		.02	.02	.032
		16.2	-126.39	136.89	-42.00	-.80	-2.36	-21.43	-.50	-.06		.02	.02	.026
		24.3	-126.39	-92.53	35.90	-.80	-2.36	-21.43	-.50	-.04		.02	.02	.027
		32.4	-126.39	-321.95	113.80	-.80	-2.36	-21.43	-.50	-.14		.02	.02	.031

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	Z ---KSI---	Y SHEAR STRESS	Z SHEAR STRESS ------/	COMB. UNITY CHECK
812- 912	P2- 1	0.0	109.58	-581.61	-380.91	-.27	2.43	-21.16	.44	.33		.02	.02	.034
		8.1	109.58	-445.45	-354.74	-.27	2.43	-21.16	.44	.24		.02	.02	.030
		16.2	109.58	-209.30	-328.56	-.27	2.43	-21.16	.44	.16		.02	.02	.027
		24.3	109.58	26.86	-302.39	-.27	2.43	-21.16	.44	.13		.02	.02	.026
		32.4	109.58	263.01	-276.21	-.27	2.43	-21.16	.44	.16		.02	.02	.027
901- 902	169- 1	0.0	.59	-1.75	-47.84	.09	-.02	4.65	.02	.52		.03	.03	.023
		6.9	.59	-3.24	-46.96	-.11	-.02	4.65	.02	.51		.03	.03	.023
		13.7	.59	-4.75	-29.17	-.32	-.02	4.65	.02	.32		.05	.05	.015
		20.6	.59	-6.26	5.54	-.52	-.02	4.65	.02	.09		.07	.07	.005
		27.4	.59	-7.77	57.17	-.73	-.02	4.65	.02	.63		.09	.09	.028
901- 904	169- 1	0.0	14.10	42.30	-47.68	.07	-.25	1.31	.58	.70		.03	.03	.056
		6.9	14.07	22.09	-45.29	-.13	-.24	1.31	.58	.55		.03	.03	.050
		13.7	14.03	3.29	-26.66	-.32	-.21	1.31	.58	.29		.04	.04	.039
		20.6	14.01	-12.69	6.98	-.50	-.17	1.31	.58	.16		.05	.05	.033
		27.4	14.00	-24.44	54.44	-.66	-.11	1.31	.57	.65		.06	.06	.054
901-1001	JL9- 1	0.0	-.22	36.93	-132.10	-4.25	-.03	53.68	-.00	-.17		.15	.15	.007
		8.1	-.23	31.82	182.83	-2.23	-.07	53.68	-.00	-.24		.10	.10	.010
		16.2	-.24	22.86	301.72	-.22	-.11	53.68	-.00	-.38		.04	.04	.016
		24.3	-.24	11.04	226.27	1.77	-.13	53.68	-.00	-.29		.08	.08	.012
		32.4	-.24	-2.67	-41.80	3.74	-.15	53.68	-.00	-.05		.14	.14	.002
901-1002	180- 1	0.0	-22.42	-31.19	25.46	.66	.36	2.90	-.82	-.34		.07	.07	.063
		10.6	-22.43	2.66	-53.07	.27	.18	2.90	-.82	-.28		.04	.04	.050
		21.1	-22.44	14.26	-46.32	-.06	.01	2.90	-.82	-.41		.02	.02	.056
		31.7	-22.46	3.93	-18.72	-.39	-.17	2.90	-.82	-.16		.04	.04	.055
		42.2	-22.47	-28.64	54.17	-.77	-.35	2.90	-.82	-.52		.07	.07	.070
901-1004	180- 1	0.0	23.98	27.11	44.43	.81	-.36	2.93	.87	.44		.08	.08	.059
		10.6	24.00	-5.99	-31.95	.39	-.17	2.93	.87	.28		.04	.04	.052
		21.1	24.02	-15.28	-55.21	-.03	.02	2.93	.87	.49		.01	.01	.061
		31.7	24.05	-.74	-25.34	-.45	.21	2.93	.87	.22		.05	.05	.050
		42.2	24.07	37.62	57.64	-.86	.40	2.93	.88	.59		.06	.06	.065
902- 903	169- 1	0.0	-.44	-4.93	38.34	.57	.07	-4.55	-.02	-.42		.07	.07	.019
		6.9	-.44	.64	.27	.36	.07	-4.55	-.02	-.01		.05	.05	.002
		13.7	-.44	6.21	-20.90	.15	.07	-4.55	-.02	-.24		.04	.04	.011
		20.6	-.44	11.78	-25.14	-.05	.07	-4.55	-.02	-.30		.03	.03	.014
		27.4	-.44	17.35	-12.47	-.26	.07	-4.55	-.02	-.23		.05	.05	.011
902- 904	109- 1	0.0	.08	8.11	1.61	.01	-.08	-.86	.01	.28		.03	.03	.012
		6.9	.08	2.04	.94	.01	-.07	-.86	.01	.08		.03	.03	.003
		13.7	.08	-2.03	.27	.01	-.04	-.86	.01	.09		.02	.02	.004
		20.6	.08	-4.47	-.40	.01	.00	-.86	.01	.15		.02	.02	.007
		27.4	.08	-2.09	-1.06	.01	.06	-.86	.01	.08		.02	.02	.004

STRAN MEMBER DETAIL REPORT

LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	Y SHEAR STRESS KSI	Z SHEAR STRESS KSI	COMB. UNITY CHECK
902- 905	109- 1	0.0	1.59	1.74	17.22	.31	-.01	.46	.13	.58		.06	.06	.031
		6.9	1.58	.97	-1.61	.15	-.01	.46	.13	.06		.03	.03	.024
		13.7	1.57	.20	-7.87	-.00	-.01	.46	.13	.26		.01	.01	.017
		20.6	1.56	-.57	-1.54	-.15	-.01	.46	.13	.05		.03	.03	.006
		27.4	1.55	-1.34	17.37	-.31	-.01	.46	.13	.58		.06	.06	.031
903- 905	169- 1	0.0	-14.74	28.93	37.13	.15	-.11	2.44	-.61	-.51		.03	.03	.067
		6.9	-14.74	19.84	24.56	.15	-.11	2.44	-.61	-.35		.03	.03	.059
		13.7	-14.74	10.75	11.99	.15	-.11	2.44	-.61	-.16		.03	.03	.052
		20.6	-14.74	1.66	-.58	.15	-.11	2.44	-.61	-.02		.03	.03	.046
		27.4	-14.74	-7.44	-13.15	.15	-.11	2.44	-.61	-.17		.03	.03	.052
903-1002	180- 1	0.0	23.00	23.65	-65.50	-.89	-.23	-.79	.84	.60		.07	.07	.054
		10.6	22.96	1.41	20.55	-.46	-.12	-.79	.84	.18		.04	.04	.046
		21.1	22.92	-5.92	52.03	-.03	.00	-.79	.83	.45		.01	.01	.057
		31.7	22.88	1.62	24.99	.40	.12	-.79	.83	.25		.03	.03	.049
		42.2	22.85	24.05	-48.50	.83	.24	-.79	.83	.46		.07	.07	.058
903-1003	JL9- 1	0.0	5.62	-207.84	138.36	2.13	3.44	-42.67	.08	.32		.14	.14	.017
		8.1	5.61	50.50	-25.72	1.24	1.87	-42.67	.08	.07		.09	.09	.007
		16.2	5.59	155.80	-101.70	.32	.29	-42.67	.08	.24		.04	.04	.014
		24.3	5.57	107.07	-87.85	-.61	-1.30	-42.67	.08	.18		.07	.07	.011
		32.4	5.55	-96.65	17.54	-1.56	-2.89	-42.67	.08	.12		.12	.12	.009
903-1005	180- 1	0.0	44.71	63.69	29.86	.10	-.66	-5.85	1.63	.60		.07	.07	.101
		10.6	44.71	.33	17.68	.09	-.34	-5.85	1.63	.15		.05	.05	.082
		21.1	44.70	-23.13	6.61	.08	-.03	-5.85	1.63	.21		.03	.03	.084
		31.7	44.70	-6.50	-3.36	.07	.29	-5.85	1.63	.06		.05	.05	.076
		42.2	44.69	50.23	-12.22	.07	.61	-5.85	1.63	.44		.07	.07	.094
904- 905	109- 1	0.0	-1.53	-1.37	14.41	.27	-.07	.46	-.13	-.48		.05	.05	.029
		6.9	-1.53	-4.59	-2.07	.13	-.01	.46	-.13	-.17		.03	.03	.016
		13.7	-1.53	-3.58	-7.27	-.01	.03	.46	-.13	-.27		.01	.01	.020
		20.6	-1.53	.25	-1.19	-.14	.06	.46	-.13	-.04		.03	.03	.011
		27.4	-1.53	5.49	14.16	-.28	.07	.46	-.13	-.57		.06	.06	.033
904- 906	169- 1	0.0	15.04	-24.46	38.96	.47	.02	-2.35	.62	.50		.05	.05	.050
		6.9	15.03	-20.05	6.24	.32	.09	-2.35	.62	.23		.04	.04	.036
		13.7	15.02	-10.00	-13.89	.17	.16	-2.35	.62	.19		.03	.03	.036
		20.6	15.01	5.69	-21.43	.02	.23	-2.35	.62	.24		.03	.03	.039
		27.4	15.01	27.02	-16.38	-.14	.29	-2.35	.62	.35		.04	.04	.043
905- 906	169- 1	0.0	-12.69	-10.06	20.38	.16	-.05	-1.16	-.52	-.25		.02	.02	.049
		6.9	-12.69	-13.99	6.88	.16	-.04	-1.16	-.52	-.17		.02	.02	.046
		13.7	-12.69	-15.08	-6.62	.16	.02	-1.16	-.52	-.18		.02	.02	.046
		20.6	-12.69	-11.00	-20.13	.16	.08	-1.16	-.52	-.25		.02	.02	.049
		27.4	-12.69	-1.29	-33.63	.16	.15	-1.16	-.52	-.37		.02	.02	.054

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

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MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /-------	BENDING STRESS Y	Z -------KSI-------	Y SHEAR STRESS	Z SHEAR STRESS -------/	COMB. UNITY CHECK
905-1004	1PD- 1	0.0	-24.26	-22.48	-50.89	-.65	.15	2.68	-.88	-.48		.06	.06	.072
		10.5	-24.29	-6.20	13.00	-.36	.11	2.68	-.88	-.12		.04	.04	.058
		21.1	-24.32	4.75	39.29	-.05	.05	2.68	-.88	-.34		.02	.02	.067
		31.7	-24.33	2.54	24.35	.30	-.10	2.68	-.89	-.21		.03	.03	.061
		42.2	-24.31	-19.01	-38.49	.71	-.24	2.68	-.88	-.37		.07	.07	.068
905-1005	10D- 1	0.0	-44.84	-50.05	26.76	.15	.50	-2.45	-1.63	-.49		.05	.05	.117
		10.5	-44.83	2.34	11.30	.10	.30	-2.45	-1.63	-.10		.03	.03	.101
		21.1	-44.82	21.47	1.41	.06	-.01	-2.45	-1.63	-.18		.01	.01	.104
		31.7	-44.81	.09	-3.80	.02	-.32	-2.45	-1.63	-.03		.03	.03	.098
		42.2	-44.80	-59.50	-4.33	-.01	-.63	-2.45	-1.63	-.51		.06	.06	.118
905-1006	JL9- 1	0.0	-5.53	216.90	20.11	2.06	-3.77	-12.15	-.08	-.26		.13	.13	.016
		8.1	-5.56	-53.31	-129.32	1.01	-2.03	-12.15	-.08	-.18		.07	.07	.012
		16.2	-5.57	-177.14	-178.09	-.01	-.31	-12.15	-.08	-.32		.02	.02	.017
		24.3	-5.56	-122.91	-128.20	-1.01	1.42	-12.15	-.08	-.23		.06	.06	.013
		32.4	-5.53	99.05	18.40	-2.00	3.14	-12.15	-.09	-.13		.11	.11	.009
1010- 910	PS- 1	0.0	-11.35	-128.48	-1339.42	-3.10	.53	26.44	-.05	-.56		.03	.03	.026
		8.1	-11.35	-70.09	-1037.49	-3.10	.53	26.44	-.05	-.43		.03	.03	.020
		16.2	-11.35	-24.90	-735.56	-3.10	.53	26.44	-.05	-.31		.03	.03	.015
		24.3	-11.35	20.89	-433.64	-3.10	.53	26.44	-.05	-.18		.03	.03	.010
		32.4	-11.35	78.68	-131.71	-3.10	.53	26.44	-.05	-.06		.03	.03	.005
1011- 911	PS- 1	0.0	-126.39	1496.56	791.79	2.33	-4.67	-21.51	-.50	-.71		.05	.05	.055
		8.1	-126.39	1041.91	565.47	2.33	-4.67	-21.51	-.50	-.49		.05	.05	.046
		16.2	-126.39	587.26	339.15	2.33	-4.67	-21.51	-.50	-.28		.05	.05	.037
		24.3	-126.39	132.60	112.82	2.33	-4.67	-21.51	-.50	-.07		.05	.05	.028
		32.4	-126.39	-322.05	-113.50	2.33	-4.67	-21.51	-.50	-.14		.05	.05	.031
1012- 912	PS- 1	0.0	109.58	-1451.02	480.02	.52	4.40	-21.16	.44	.64		.04	.04	.047
		8.1	109.58	-1022.51	429.07	.52	4.40	-21.16	.44	.46		.04	.04	.040
		16.2	109.58	-594.01	378.12	.52	4.40	-21.16	.44	.29		.04	.04	.033
		24.3	109.58	-165.50	327.16	.52	4.40	-21.16	.44	.15		.04	.04	.027
		32.4	109.58	263.01	276.21	.52	4.40	-21.16	.44	.16		.04	.04	.027
1001-1002	200- 1	0.0	31.14	-51.30	-32.52	.44	.21	-6.96	.62	.34		.04	.04	.052
		8.0	31.14	-31.02	-58.72	.11	.21	-6.96	.62	.37		.03	.03	.054
		16.0	31.14	-10.73	-52.19	-.24	.21	-6.96	.62	.30		.04	.04	.050
		24.0	31.14	9.55	-11.02	-.62	.21	-6.96	.62	.08		.05	.05	.041
		32.0	31.14	29.84	66.72	-1.01	.21	-6.96	.62	.41		.07	.07	.055
1001-1004	200- 1	0.0	-29.65	52.16	-27.30	.50	-.19	-10.53	-.78	-.33		.06	.06	.069
		8.0	-29.67	33.60	-57.92	.14	-.19	-10.53	-.78	-.37		.08	.08	.071
		16.0	-29.69	15.05	-54.16	-.22	-.19	-10.53	-.78	-.31		.08	.08	.068
		24.0	-29.71	-3.51	-16.02	-.58	-.19	-10.53	-.78	-.09		.06	.06	.059
		32.0	-29.74	-22.06	56.49	-.93	-.19	-10.53	-.78	-.34		.08	.08	.069

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LOAD CONDITION NO. 8

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NUMBER	GROUP AND SECTN	DIST FROM END FT.	FORCE FX KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	TORSION MX IN-KIPS	AXIAL STRESS /------	BENDING STRESS Y	Z -------KSI------	Y SHEAR STRESS	Z SHEAR STRESS ------/	COMB. UNITY CHECK
1002-1003	200- 1	0.0	-.96	-20.32	46.86	.88	.15	15.03	-.03	-.29		.09	.09	.014
		8.0	-.96	-5.67	-18.61	.48	.15	15.03	-.03	-.11		.07	.07	.006
		16.0	-.96	8.58	-45.58	.08	.15	15.03	-.03	-.26		.05	.05	.013
		24.0	-.96	23.04	-34.06	-.32	.15	15.03	-.03	-.23		.06	.06	.011
		32.0	-.96	37.49	15.95	-.72	.15	15.03	-.03	-.23		.08	.08	.011
1002-1004	140- 1	0.0	.18	35.75	.94	.01	-.19	-5.55	.01	.67		.08	.08	.029
		8.0	.18	17.70	.25	.01	-.19	-5.55	.01	.33		.08	.08	.015
		16.0	.18	-.35	-.45	.01	-.19	-5.55	.01	.01		.08	.08	.001
		24.0	.18	-18.41	-1.14	.01	-.19	-5.55	.01	.35		.08	.08	.015
		32.0	.18	-36.47	-1.83	.01	-.19	-5.55	.01	.69		.08	.08	.029
1002-1005	140- 1	0.0	4.02	26.98	20.97	.35	-.11	2.49	.25	.64		.07	.07	.039
		8.0	4.01	10.50	-3.99	.17	-.11	2.49	.25	.32		.05	.05	.025
		16.0	4.00	6.02	-11.76	-.01	-.11	2.49	.25	.25		.04	.04	.022
		24.0	3.99	-4.46	-2.34	-.19	-.11	2.49	.25	.09		.05	.05	.015
		32.0	3.98	-14.94	24.26	-.37	-.11	2.49	.25	.54		.07	.07	.034
1003-1005	200- 1	0.0	-33.64	87.59	60.93	.22	-.38	-.56	-.88	-.60		.02	.02	.087
		8.0	-33.64	51.48	39.70	.22	-.38	-.56	-.88	-.36		.02	.02	.077
		16.0	-33.64	15.36	18.47	.22	-.38	-.56	-.88	-.13		.02	.02	.068
		24.0	-33.64	-20.75	-2.75	.22	-.38	-.56	-.88	-.12		.02	.02	.067
		32.0	-33.64	-56.87	-23.98	.22	-.38	-.56	-.88	-.35		.02	.02	.077
1004-1005	140- 1	0.0	-4.11	-21.40	20.47	.32	.08	2.89	-.26	-.56		.07	.07	.038
		8.0	-4.11	-13.64	-2.52	.16	.08	2.89	-.26	-.26		.05	.05	.026
		16.0	-4.11	-5.87	-10.12	-.00	.08	2.89	-.26	-.22		.04	.04	.024
		24.0	-4.11	1.90	-2.32	-.16	.08	2.89	-.26	-.06		.05	.05	.017
		32.0	-4.11	9.66	20.88	-.32	.08	2.89	-.26	-.43		.07	.07	.033
1004-1006	200- 1	0.0	4.57	27.32	42.45	.76	-.17	9.61	.12	.28		.07	.07	.017
		8.0	4.55	10.52	-13.20	.40	-.17	9.61	.12	.09		.05	.05	.010
		16.0	4.53	-6.28	-34.46	.04	-.17	9.61	.12	.20		.04	.04	.014
		24.0	4.51	-23.08	-21.35	-.32	-.17	9.61	.12	.18		.05	.05	.013
		32.0	4.48	-39.88	26.14	-.67	-.17	9.61	.12	.27		.06	.06	.017
1005-1006	200- 1	0.0	30.04	42.96	16.65	.15	-.34	-3.43	.79	.26		.03	.03	.047
		8.0	30.04	10.59	2.20	.15	-.34	-3.43	.79	.06		.03	.03	.039
		16.0	30.04	-21.78	-12.25	.15	-.34	-3.43	.79	.14		.03	.03	.042
		24.0	30.04	-54.15	-26.70	.15	-.34	-3.43	.79	.34		.03	.03	.051
		32.0	30.04	-86.52	-41.15	.15	-.34	-3.43	.79	.54		.03	.03	.059

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER GROUP I D	THREE MOST RESTRICTIVE MEMBERS /FIRST/ MEMBER NO.	MAX. U. CK	LD. CN.	/SECOND/ MEMBER NO.	MAX. U. CK	LD. CN.	/THIRD/ MEMBER NO.	MAX. U. CK	LD. CN.	TOTAL	NUMBER OF MEMBERS IN GROUP WITH UNITY CK GT 1.33	WITH UNITY CK GT 1.00	WITH UNITY CK LT .50
M18	201- 202	.04	7	201- 204	.03	7	101- 104	.03	7	12	0	0	12
DAL	303- 403	.07	7	301- 401	.04	7	203- 303	.04	7	9	0	0	9
M05	202- 205	.01	7	204- 205	.01	7	102- 105	.01	7	6	0	0	6
120	203- 306	.03	7	206- 301	.03	7	201- 303	.02	7	3	0	0	3
123	303- 306	.04	7	301- 303	.04	7	301- 306	.04	7	3	0	0	3
JL4	403- 503	.15	7	404- 506	.14	7	401- 501	.03	7	3	0	0	3
P1	511- 711	.21	7	512- 712	.18	7	403- 511	.16	7	6	0	0	6
105	501- 504	.20	7	504- 506	.19	7	505- 506	.15	7	6	0	0	6
JL5	503- 603	.22	7	506- 606	.22	7	501- 601	.05	7	3	0	0	3
200	803- 906	.45	7	706- 803	.32	7	703- 801	.32	7	12	0	0	12
105	502- 505	.12	7	504- 505	.12	7	502- 504	.03	7	3	0	0	3
JL6	653- 703	.25	7	626- 656	.23	7	506- 626	.23	7	9	0	0	9
137	701- 702	.23	7	702- 703	.20	7	705- 706	.18	7	6	0	0	6
JL7	703- 803	.40	7	706- 806	.36	7	701- 801	.10	7	3	0	0	3
107	702- 705	.13	7	704- 705	.13	7	702- 704	.03	7	3	0	0	3
P2	711- 811	.19	7	812- 912	.19	7	712- 812	.18	7	6	0	0	6
148	801- 804	.21	7	804- 806	.19	7	805- 806	.15	7	6	0	0	6
JL8	806- 906	.26	7	803- 903	.22	7	801- 901	.09	7	3	0	0	3
108	802- 805	.13	7	804- 805	.12	7	802- 804	.03	7	3	0	0	3
109	901- 904	.25	7	904- 906	.24	7	905- 906	.21	7	6	0	0	6
JL9	903-1003	.04	7	906-1006	.04	7	901-1001	.03	7	3	0	0	3
100	903-1005	.45	7	906-1005	.35	7	901-1004	.28	7	6	0	0	6
104	902- 905	.13	7	904- 905	.12	7	902- 904	.03	7	3	0	0	3
P3	1011- 911	.25	7	1012- 912	.25	7	1010- 910	.12	7	3	0	0	3
200	1001-1002	.28	7	1005-1006	.26	7	1003-1005	.23	7	6	0	0	6
140	1002-1005	.12	7	1004-1005	.10	7	1002-1004	.09	7	3	0	0	3

TOTAL MEMBERS 135 0 0 135

.01 - .45

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - ML= 105.0 FEET

MEMBER NO.	GROUP ID	MAXIMUM COMBINED UNITY CK	UNITY CHECK COMPONENT VALUES AXIAL	Y-AXIS	Z-AXIS	LOAD COND NO.	DIST FROM END(FT)	/-------- CONTROLLING MEMBER ACTIONS --------/ FORCE FX KIPS	TORSION MX IN-KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	/-NEXT TWO HIGH CASES-/ COMBINED UNITY CK	LD CN	COMBINED UNITY CK	LD CN
101- 102	M10-01	.030	.000	.000	.030	7	0.0	.06	-.00	.23	6.89	.007	5	.003	8
101- 104	M10-01	.030	.000	.000	.030	7	0.0	-.03	.00	-.27	6.94	.008	5	.003	8
101- 201	DRL-01	.002	.000	.001	.001	7	15.0	-.00	15.83	20.14	17.37	.001	5	.000	3
102- 103	M10-01	.019	.000	.001	.018	7	14.5	.12	.00	-2.04	4.15	.004	5	.002	8
102- 104	M05-01	.004	.000	.000	.004	7	0.0	.00	-.00	-.00	-.44	.001	5	.000	3
102- 105	M05-01	.006	.001	.000	.004	7	14.5	-.11	.00	.06	-.54	.002	5	.001	8
103- 105	M10-01	.014	.000	.001	.013	7	0.0	.06	-.00	-1.24	-3.10	.003	5	.002	8
103- 203	DRL-01	.002	.000	.000	.002	7	15.0	.01	-7.25	.13	-27.59	.000	5	.000	3
104- 105	M05-01	.005	.001	.000	.005	7	14.5	.11	.00	-.06	-.56	.002	5	.001	8
104- 106	M10-01	.021	.000	.001	.020	7	14.5	-.08	.00	1.06	4.58	.007	5	.003	3
105- 106	M10-01	.016	.000	.000	.015	7	14.5	-.05	-.00	1.04	3.57	.006	5	.002	3
106- 206	DRL-01	.002	.000	.002	.000	7	15.0	.03	-11.64	-32.48	15.92	.000	5	.000	3
201- 202	M10-01	.038	.006	.000	.031	7	0.0	2.23	-.00	.70	7.28	.009	5	.004	8
201- 204	M10-01	.035	.001	.000	.032	7	0.0	-.34	-.00	.39	7.41	.009	5	.004	8
201- 301	DRL-01	.009	.001	.008	.000	7	15.0	1.24	64.46	126.65	-24.04	.003	5	.002	3
201- 303	120-01	.022	.009	.000	.013	7	0.0	-2.77	-1.39	-2.73	18.12	.005	5	.002	3
202- 203	M10-01	.026	.007	.000	.019	7	14.5	2.29	-.00	-.63	4.41	.006	5	.003	8
202- 204	M05-01	.004	.000	.000	.004	7	0.0	.00	.00	.04	-.48	.001	5	.000	3
202- 205	M05-01	.006	.001	.000	.005	7	14.5	-.12	.00	-.02	-.60	.002	5	.001	8
203- 205	M10-01	.016	.001	.000	.015	7	0.0	.52	-.00	.41	-3.39	.004	5	.002	8
203- 303	DRL-01	.038	.001	.032	.004	7	15.0	2.00	-34.76	523.35	-186.33	.009	5	.003	3
203- 306	120-01	.032	.014	.002	.016	7	32.6	-4.26	-2.12	7.20	22.95	.008	5	.003	8
204- 205	M05-01	.006	.001	.000	.005	7	14.5	.11	-.00	.02	-.62	.002	5	.001	8
204- 206	M10-01	.023	.001	.001	.021	7	14.5	-.39	-.00	-1.51	4.94	.008	5	.003	3
205- 206	M10-01	.018	.001	.000	.016	7	14.5	.39	.00	-.79	3.81	.008	5	.003	3
206- 301	120-01	.026	.008	.000	.018	7	32.6	3.28	4.49	-3.74	-24.06	.005	5	.002	8
206- 306	DRL-01	.028	.001	.023	.004	7	15.0	-1.48	-22.90	381.10	-156.14	.005	5	.002	3
301- 303	125-01	.039	.014	.000	.024	7	0.0	-4.65	2.85	-3.75	32.78	.011	5	.004	3
301- 306	125-01	.037	.014	.003	.019	7	0.0	-4.46	-.16	-12.05	28.42	.006	5	.002	8
301- 401	DRL-01	.038	.002	.019	.017	7	28.5	-3.83	-17.32	-398.62	-381.04	.010	5	.005	3
303- 306	125-01	.039	.013	.007	.020	7	0.0	5.24	1.19	-18.14	-31.26	.012	5	.004	3
303- 403	DRL-01	.070	.000	.059	.011	7	28.5	.77	-71.50	-969.32	411.94	.017	5	.007	3
306- 406	DRL-01	.031	.002	.025	.003	7	0.0	-3.64	-79.31	410.08	-144.46	.016	5	.006	3
401- 501	JL4-01	.026	.003	.000	.023	7	4.6	-16.11	128.24	-225.05	1555.18	.008	5	.004	3
401- 510	P1-01	.012	.003	.000	.010	7	0.0	12.32	-56.98	-71.64	491.35	.009	5	.004	3
403- 503	JL4-01	.148	.122	.009	.018	7	4.6	-665.60	-51.09	1024.62	-1460.94	.055	5	.025	8
403- 511	P1-01	.160	.141	.007	.012	7	0.0	672.95	184.02	599.24	-770.81	.060	5	.029	8
406- 506	JL4-01	.138	.127	.011	.000	7	4.6	695.04	-209.60	-728.76	-157.07	.053	5	.022	3
406- 512	P1-01	.154	.148	.000	.006	7	4.6	-699.67	183.78	-23.16	315.74	.065	5	.027	3
501- 502	165-01	.087	.019	.001	.068	7	0.0	12.47	-20.35	17.30	180.52	.036	5	.020	8
501- 504	165-01	.202	.118	.028	.056	7	0.0	-64.31	-.72	-120.71	180.99	.078	5	.028	3
501- 601	JL5-01	.047	.018	.002	.028	7	6.1	-53.69	225.41	281.74	-1094.19	.025	5	.011	3
501- 622	200-01	.205	.081	.027	.097	7	0.0	66.72	-26.04	246.26	-464.86	.085	5	.031	3
502- 503	165-01	.072	.030	.000	.042	7	0.0	19.30	14.87	-3.75	-111.26	.030	5	.014	8
502- 504	165-01	.034	.005	.028	.002	7	15.2	1.16	5.36	20.57	5.99	.012	5	.004	3
502- 505	165-01	.122	.044	.000	.078	7	15.2	-9.64	-2.79	1.71	-55.26	.054	5	.006	3
503- 505	165-01	.130	.064	.044	.022	7	0.0	42.01	-12.19	-142.56	-101.69	.039	5	.011	8
503- 603	JL5-01	.223	.178	.020	.024	7	0.0	-550.97	-391.44	1127.33	-1240.59	.086	5	.041	8

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NO.	GROUP ID	MAXIMUM COMBINED UNITY CK	UNITY CHECK COMPONENT VALUES AXIAL	Y-AXIS	Z-AXIS	LOAD COND NO.	DIST FROM END(FT)	CONTROLLING MEMBER ACTIONS FORCE FX KIPS	TORSION MX IN-KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	NEXT TWO HIGH CASES COMBINED UNITY CK	LD CN	COMBINED UNITY CK	LD CN
503- 625	200-01	.274	.187	.068	.019	7	0.0	-142.57	-16.97	-376.14	-201.48	.109	5	.046	3
504- 505	105-01	.115	.032	.002	.085	7	15.2	6.32	-2.51	-8.12	-60.63	.053	5	.055	3
504- 506	105-01	.168	.127	.001	.060	7	0.0	-69.20	26.23	17.04	-161.03	.073	5	.026	3
505- 506	105-01	.147	.046	.038	.063	7	15.2	30.22	-6.78	165.36	210.85	.049	5	.013	3
505- 606	JL5-01	.223	.209	.010	.004	7	6.1	644.75	-43.42	452.56	266.80	.095	5	.041	3
505- 624	200-01	.255	.107	.017	.133	7	0.0	88.11	35.07	216.65	601.44	.104	5	.036	3
51 - 710	M1-01	.059	.003	.003	.053	7	25.3	12.34	-56.76	678.15	-2776.60	.027	5	.015	8
511- 711	M1-01	.210	.141	.032	.037	7	25.3	672.97	183.46	-2390.64	2544.72	.088	5	.043	8
512- 712	M1-01	.165	.154	.030	.000	7	25.3	-699.67	183.94	1794.24	-197.33	.077	5	.034	5
601- 621	JL5-01	.072	.017	.004	.051	7	6.1	-52.57	558.15	525.69	-1994.84	.035	5	.016	3
603- 623	JL6-01	.212	.178	.011	.023	7	6.1	-549.75	-463.94	-729.86	1050.96	.095	5	.043	3
604- 626	JL5-01	.233	.209	.022	.002	7	6.1	646.09	-44.29	845.91	241.79	.099	5	.045	3
621- 651	JL6-01	.064	.017	.005	.062	7	6.1	-52.67	560.52	706.65	-2438.71	.039	5	.018	3
622- 703	200-01	.219	.061	.042	.096	7	21.8	66.70	-30.25	323.02	-489.84	.093	5	.036	3
623- 653	JL6-01	.251	.177	.020	.034	7	6.1	-547.91	-466.01	-1241.82	1617.49	.101	5	.046	3
624- 701	200-01	.207	.107	.002	.098	7	21.9	86.10	34.94	56.18	419.63	.084	5	.031	3
625- 706	200-01	.236	.168	.039	.009	7	21.9	-142.55	-16.67	-208.70	99.41	.102	5	.047	3
626- 656	JL6-01	.233	.209	.023	.001	7	1.5	645.48	-43.90	673.58	202.28	.099	5	.044	8
651- 701	JL6-01	.063	.019	.005	.059	7	0.0	-58.35	979.10	677.52	-2315.26	.038	5	.017	3
653- 703	JL6-01	.246	.169	.020	.036	7	0.0	-584.85	-565.10	-1279.33	1695.47	.108	5	.048	3
656- 706	JL6-01	.230	.209	.021	.000	7	0.0	644.05	-43.90	805.30	-7.76	.096	5	.044	8
701- 702	137-01	.229	.104	.004	.121	7	16.8	43.50	-6.68	-28.50	-165.74	.133	8	.104	5
701- 704	137-01	.141	.029	.000	.112	7	16.8	-8.29	-11.65	-3.62	-150.72	.121	8	.073	6
701- 801	JL7-01	.096	.035	.000	.061	7	14.2	54.13	340.91	23.47	-1135.33	.043	5	.023	8
701- 506	200-01	.248	.169	.024	.106	7	0.0	-105.16	-28.40	-253.09	-531.71	.134	5	.060	5
702- 703	137-01	.199	.116	.005	.079	7	0.0	48.12	4.50	-26.84	-109.30	.131	8	.091	5
702- 704	107-01	.030	.005	.027	.000	7	16.8	-.52	2.63	19.25	-2.24	.030	8	.016	6
702- 705	107-01	.134	.033	.001	.100	7	16.8	-6.09	-1.53	6.04	-71.52	.059	5	.033	8
703- 705	137-01	.166	.073	.000	.093	7	0.0	-21.15	-3.72	4.93	-125.41	.117	8	.084	5
703- 801	200-01	.321	.170	.011	.139	7	0.0	-106.02	27.44	-186.40	657.02	.143	5	.084	3
703- 803	JL7-01	.403	.337	.040	.026	7	7.1	-486.74	197.98	-1104.60	885.36	.173	5	.093	8
704- 705	107-01	.134	.029	.001	.105	7	0.0	7.41	.04	5.32	-74.50	.060	5	.035	8
704- 706	137-01	.127	.004	.123	.000	8	16.8	1.65	7.35	165.38	-.20	.106	7	.076	6
705- 706	137-01	.179	.110	.038	.032	7	16.8	-31.64	-1.82	68.97	63.60	.125	8	.089	5
706- 805	200-01	.324	.225	.080	.017	7	0.0	187.09	-4.53	371.06	-169.32	.142	5	.066	3
706- 806	JL7-01	.357	.298	.052	.007	7	14.2	454.55	-278.26	1034.03	376.15	.150	5	.082	8
710- 810	M2-01	.052	.002	.003	.047	7	0.0	12.34	-55.84	674.05	-2777.62	.024	5	.013	8
711- 811	M2-01	.105	.124	.029	.032	7	0.0	672.96	181.88	-2394.62	2541.28	.078	5	.038	8
712- 812	M2-01	.163	.137	.037	.010	7	28.4	-699.67	184.01	2364.58	1208.21	.074	5	.034	8
801- 802	140-01	.112	.006	.004	.103	7	22.8	2.66	-5.79	-33.26	-171.67	.053	8	.044	5
801- 804	140-01	.213	.098	.000	.115	7	22.6	-29.18	-15.57	-12.21	-188.75	.091	5	.089	8
801- 901	JL8-01	.090	.047	.000	.043	7	16.2	-67.64	-64.27	-67.54	-805.65	.038	5	.024	8
801- 903	200-01	.270	.134	.014	.122	7	59.6	109.84	-30.24	188.50	-546.94	.109	5	.080	8
802- 803	140-01	.061	.016	.006	.059	7	0.0	7.46	12.50	-31.84	-100.86	.054	8	.033	5
802- 804	108-01	.023	.002	.025	.000	7	22.8	.45	3.98	16.69	-2.30	.019	8	.014	5
802- 805	108-01	.133	.035	.002	.096	7	0.0	-6.65	-5.30	-9.28	-68.83	.049	5	.026	8
803- 805	140-01	.114	.062	.004	.047	7	0.0	26.45	-5.56	-24.61	-80.70	.086	8	.053	6
803- 903	JL8-01	.219	.191	.024	.003	7	6.1	-274.95	-123.18	-557.28	190.42	.091	5	.061	8

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NO.	GROUP ID	MAXIMUM COMBINED UNITY CK	UNITY CHECK COMPONENT VALUES AXIAL	Y-AXIS	Z-AXIS	LOAD COND NO.	DIST FROM END(FT)	/-------- CONTROLLING MEMBER ACTIONS FORCE FX KIPS	TORSION MX IN-KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS --------/	/-NEXT TWO HIGH CASES-/ COMBINED UNITY CK	LD CN	COMBINED UNITY CK	LD CN
803- 906	200-01	.452	.354	.072	.027	7	0.0	-201.39	-.72	-315.52	-192.63	.186	5	.088	8
804- 805	100-01	.122	.024	.000	.098	7	22.8	6.19	.12	-4.12	-69.78	.048	5	.029	8
804- 806	140-01	.191	.112	.001	.079	7	0.0	-35.51	10.48	-11.00	-129.55	.082	8	.082	5
805- 806	140-01	.155	.042	.039	.073	7	22.8	19.46	-6.75	108.79	149.14	.073	8	.068	5
805- 901	200-01	.281	.141	.038	.103	7	0.0	115.86	25.42	308.21	510.11	.116	5	.073	8
806- 906	JL5-01	.258	.217	.022	.019	7	16.2	332.01	355.88	556.16	513.50	.107	5	.070	8
810- 910	P2-01	.040	.002	.000	.038	7	0.0	12.34	-57.45	-34.19	-2147.36	.016	5	.013	8
811- 911	P2-01	.168	.124	.039	.005	7	0.0	672.95	182.93	-2370.01	817.20	.067	5	.056	8
812- 912	P2-01	.165	.138	.037	.010	7	0.0	-699.65	184.53	2364.58	1208.13	.075	5	.054	8
901- 902	169-01	.145	.055	.002	.086	7	27.4	-17.90	-9.76	-30.70	-189.33	.064	5	.028	8
901- 904	169-01	.256	.170	.001	.085	7	27.4	-55.68	-14.76	-22.05	-211.44	.107	5	.056	8
901-1001	JL9-01	.028	.001	.001	.026	7	16.2	1.03	-211.89	-108.92	-504.61	.016	8	.011	5
901-1002	150-01	.228	.155	.015	.058	7	42.2	91.95	-18.59	91.83	-179.87	.086	5	.070	8
901-1004	150-01	.280	.215	.025	.039	7	42.2	-99.95	-15.74	-118.56	-147.38	.114	5	.065	8
902- 903	169-01	.098	.042	.003	.054	7	0.0	-13.83	6.95	-26.68	-119.23	.044	5	.020	3
902- 904	109-01	.027	.001	.026	.000	7	27.4	.28	4.69	16.14	.19	.013	5	.012	8
902- 905	109-01	.127	.035	.002	.090	7	0.0	-5.08	-2.07	-9.45	-64.80	.050	5	.031	8
903- 905	169-01	.191	.133	.011	.046	7	0.0	70.03	-2.59	-55.37	-112.12	.077	5	.057	8
903-1002	180-01	.255	.201	.004	.055	7	0.0	-93.27	8.49	-88.81	175.83	.106	5	.064	8
903-1003	JL9-01	.042	.014	.016	.012	7	0.0	-20.56	185.20	395.49	-339.67	.018	5	.017	8
903-1005	180-01	.448	.367	.058	.024	7	0.0	-170.44	21.51	-184.08	-117.62	178	5	.101	8
904- 905	109-01	.120	.022	.000	.098	7	27.4	5.64	-1.79	-2.13	-69.50	.043	5	.033	8
904- 906	169-01	.244	.181	.001	.062	7	0.0	-59.33	12.36	-20.22	-154.23	.102	5	.050	8
905- 906	159-01	.206	.118	.037	.051	7	27.4	62.27	-5.18	123.29	145.20	.091	5	.054	8
906-1004	180-01	.241	.170	.022	.050	7	0.0	100.70	-1.25	109.18	166.58	.095	5	.072	8
906-1005	160-01	.350	.288	.062	.001	7	42.2	170.83	7.92	172.43	20.78	.142	5	.118	8
906-1006	JL9-01	.042	.013	.008	.021	7	16.2	19.49	115.77	282.97	463.33	.017	5	.017	8
1010- 910	P3-01	.120	.002	.001	.116	7	0.0	12.33	-57.43	599.75	6660.19	.059	5	.026	8
1011- 911	P3-01	.250	.124	.098	.028	7	0.0	672.98	183.51	-6339.54	-3410.72	.091	5	.055	8
1012- 912	P3-01	.249	.138	.100	.010	7	0.0	-699.69	184.53	5972.83	-1850.06	.089	5	.047	8
1001-1002	200-01	.277	.229	.034	.014	7	0.0	-124.18	13.87	167.53	115.67	.114	5	.055	8
1001-1004	200-01	.192	.143	.033	.016	7	0.0	117.79	34.43	-170.37	117.77	.078	5	.071	8
1002-1003	200-01	.030	.004	.010	.017	7	24.0	3.01	-52.71	-67.25	89.50	.014	8	.011	5
1002-1004	140-01	.091	.000	.091	.000	7	32.0	.10	17.57	114.61	.52	.035	5	.029	8
1002-1005	140-01	.118	.035	.054	.029	7	0.0	-9.70	-7.30	-84.27	-61.67	.044	5	.039	8
1003-1005	200-01	.229	.158	.047	.024	7	0.0	129.75	4.35	-245.72	-176.08	.091	5	.067	8
1004-1005	140-01	.098	.028	.039	.029	7	0.0	9.59	-10.78	65.28	-55.85	.038	8	.034	5
1004-1006	200-01	.067	.036	.030	.001	7	32.0	-19.40	-28.74	131.85	-25.74	.027	5	.017	8
1005-1006	200-01	.261	.194	.051	.016	7	32.0	-105.26	4.18	251.23	148.57	.105	5	.059	8

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NO.	GROUP ID	MAXIMUM COMBINED UNITY CK	LOAD COND	DIST FROM END(FT)	FORCE FX KIPS	TORSION MX IN-KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	Z-AXIS SHEAR UNITY CK	LD CN	Y-AXIS SHEAR UNITY CK	LD CN	KLY/RY	KLZ/RZ	NEXT HIGH UN.CK.	LD CN
					/-------- CONTROLLING MEMBER ACTIONS --------/											
101- 102	W16-01	.030	7	0.0	.06	-.00	.23	6.89	.000	7	.000	7	49.5	55.2	.007	5
101- 104	W16-01	.030	7	0.0	-.03	.00	-.27	6.94	.000	7	.000	7	49.4	55.2	.006	5
101- 201	DRL-01	.002	7	15.0	-.00	13.83	20.14	17.37	.002	7	.001	7	17.5	17.5	.001	5
102- 103	W15-01	.019	7	14.5	.12	.00	-2.04	4.15	.000	7	.000	7	49.5	55.2	.004	5
102- 104	W06-01	.004	7	0.0	.00	-.00	-.00	-.44	.000	7	.000	7	50.9	108.3	.001	5
102- 105	W06-01	.005	7	14.5	-.11	.00	.06	-.54	.000	7	.000	7	50.9	108.3	.002	5
103- 105	W15-01	.014	7	0.0	.06	-.00	-1.24	-3.10	.000	7	.000	7	49.4	55.2	.003	5
103- 203	DRL-01	.002	7	15.0	.01	-7.25	.13	-27.59	.001	7	.001	7	17.5	17.5	.000	5
104- 105	W06-01	.005	7	14.5	.11	.00	-.06	-.56	.000	7	.000	7	50.9	108.4	.002	5
104- 106	W16-01	.021	7	14.5	-.08	.00	1.06	4.50	.000	7	.000	7	49.5	55.2	.007	5
105- 106	W16-01	.015	7	14.5	-.05	-.00	1.04	3.57	.000	7	.000	7	49.5	55.2	.006	5
106- 206	DRL-01	.002	7	15.0	.03	-11.64	-32.48	15.92	.002	7	.001	7	17.5	17.5	.009	5
201- 202	W16-01	.034	7	0.0	2.23	-.00	.70	7.26	.000	7	.000	7	49.5	55.2	.009	5
201- 204	W16-01	.033	7	0.0	-.34	-.00	.39	7.41	.000	7	.001	7	49.4	55.2	.009	5
201- 301	DRL-01	.009	7	15.0	1.24	64.46	126.85	-24.04	.008	7	.005	7	17.5	17.5	.003	5
201- 303	120-01	.022	7	0.0	-2.77	-1.39	-2.73	18.12	.002	7	.001	7	72.3	72.3	.005	5
202- 203	W16-01	.025	7	14.5	2.29	-.00	-.63	4.41	.000	7	.000	7	49.5	55.2	.006	5
202- 204	W06-01	.004	7	0.0	.00	.00	.04	-.48	.000	7	.000	7	50.9	108.3	.001	5
202- 205	W06-01	.005	7	14.5	-.12	.00	-.02	-.60	.000	7	.000	7	50.9	108.3	.002	5
203- 205	W15-01	.010	7	0.0	.52	-.00	.41	-3.39	.000	7	.000	7	49.4	55.2	.004	5
203- 303	DRL-01	.035	7	15.0	2.00	-34.76	523.33	-186.33	.008	7	.007	7	17.5	17.5	.009	5
203- 305	120-01	.032	7	32.0	-4.26	-2.12	7.20	22.95	.003	7	.002	7	72.3	72.3	.008	5
204- 205	W06-01	.005	7	14.5	.11	-.00	.02	-.62	.000	5	.000	7	50.9	108.4	.002	5
204- 206	W16-01	.023	7	14.5	-.39	-.00	-1.51	4.94	.000	7	.000	7	49.5	55.2	.008	5
205- 206	W16-01	.018	7	14.5	.39	.00	-.79	3.81	.000	7	.000	7	49.5	55.2	.006	5
205- 301	120-01	.026	7	32.0	3.28	4.49	-3.74	-24.06	.006	7	.003	7	72.3	72.3	.005	5
205- 305	DRL-01	.028	7	15.0	-1.48	-22.90	381.10	-156.14	.006	7	.005	7	17.5	17.5	.005	5
301- 303	125-01	.039	7	0.0	-4.65	2.85	-3.75	32.78	.004	7	.003	7	64.2	64.2	.011	5
301- 306	125-01	.037	7	0.0	-4.46	-.16	-12.05	28.42	.001	7	.001	7	64.2	64.2	.006	5
301- 401	DRL-01	.038	7	28.5	-3.83	-17.32	-398.62	-381.04	.018	7	.017	7	33.3	33.3	.010	5
303- 306	125-01	.039	7	0.0	5.24	1.19	-18.14	-31.26	.003	7	.002	7	64.2	64.2	.012	5
303- 403	DRL-01	.070	7	28.5	.77	-71.50	-969.32	411.94	.026	7	.023	7	33.3	33.3	.017	5
305- 406	DRL-01	.131	7	0.0	-3.64	-79.31	410.08	-144.46	.020	7	.016	7	33.3	33.3	.016	5
401- 501	JL4-01	.026	7	4.6	-18.11	128.24	-225.05	1555.18	.020	7	.018	7	3.3	3.3	.008	5
401- 510	M1-01	.112	7	0.0	12.32	-56.98	-71.84	491.35	.011	7	.010	7	3.9	3.9	.009	5
403- 503	JL4-01	.148	7	4.6	-665.60	-51.09	1024.62	-1460.94	.017	7	.016	7	3.3	3.3	.055	5
403- 511	M1-01	.160	7	0.0	672.95	184.02	599.24	-770.81	.008	7	.005	7	3.9	3.9	.060	5
406- 506	JL4-01	.138	7	4.6	695.04	-209.60	-728.76	-157.07	.015	7	.012	7	3.3	3.3	.053	5
405- 512	M1-01	.154	7	4.6	-699.87	163.78	-23.16	315.74	.010	7	.007	7	3.9	3.9	.065	5
501- 502	165-01	.087	7	0.0	12.47	-20.35	17.30	180.52	.031	7	.024	7	53.5	26.7	.036	5
501- 504	165-01	.202	7	0.0	-64.31	-.72	-128.71	160.99	.019	7	.019	7	53.5	26.7	.075	5
501- 601	JL5-01	.047	7	6.1	-53.89	225.41	281.74	-1094.19	.041	7	.036	7	4.5	4.5	.025	5
501- 622	203-01	.205	7	0.0	66.72	-26.04	246.20	-464.80	.035	7	.030	7	28.6	28.6	.085	5
502- 503	165-01	.072	7	0.0	19.30	14.87	-3.75	-111.26	.022	7	.018	7	53.5	26.7	.030	5
502- 504	105-01	.034	7	15.2	1.16	5.36	20.37	5.99	.016	7	.009	7	49.5	49.5	.012	5
502- 505	105-01	.122	7	15.2	-9.64	-2.79	1.71	-55.26	.025	7	.022	7	49.5	49.5	.054	5
503- 505	165-01	.130	7	0.0	42.01	-12.19	-142.55	-101.69	.013	7	.009	7	53.5	26.7	.039	5
503- 603	JL5-01	.223	7	0.0	-550.97	-391.44	1127.33	-1240.59	.045	7	.037	7	4.5	4.5	.086	5

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U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NO.	GROUP ID	MAXIMUM COMBINED UNITY CK	LOAD COND	DIST FROM END(FT)	FORCE FX KIPS	TORSION MX IN-KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	Z-AXIS SHEAR UNITY CK	LD CN	Y-AXIS SHEAR UNITY CK	LD CN	KLY/RY	KLZ/RZ	NEXT HIGH UN.CK.	LD CN
					/-------- CONTROLLING	MEMBER ACTIONS	-------/									
503- 625	200-01	.274	7	0.0	-142.57	-16.97	-576.14	-201.48	.020	7	.017	7	28.4	28.4	.109	5
504- 505	105-01	.118	7	15.2	8.32	-2.51	-8.12	-60.63	.025	7	.023	7	49.5	49.5	.053	5
504- 506	105-01	.108	7	0.0	-69.20	26.23	17.04	-161.03	.033	7	.024	7	53.5	26.7	.073	5
505- 506	105-01	.147	7	15.2	30.22	-6.78	165.36	210.85	.013	7	.011	7	53.5	26.7	.049	5
505- 606	JL5-01	.225	7	6.1	844.75	-43.42	452.56	266.80	.013	7	.012	7	4.5	4.5	.095	5
506- 624	200-01	.258	7	0.0	88.11	35.07	216.85	601.44	.040	7	.033	7	28.4	28.4	.104	5
510- 710	P1-01	.059	7	25.3	12.34	-56.76	678.15	-2776.60	.007	7	.006	7	21.4	21.4	.027	5
511- 711	P1-01	.210	7	25.3	672.97	183.46	-2590.84	2544.72	.015	7	.012	7	21.4	21.4	.088	5
512- 712	P1-01	.185	7	25.3	-699.87	183.94	1794.24	-197.33	.010	7	.007	7	21.4	21.4	.077	5
601- 621	JL6-01	.072	7	6.1	-52.57	558.15	525.69	-1994.84	.039	7	.027	7	4.5	4.5	.035	5
605- 623	JL5-01	.212	7	6.1	-549.75	-463.94	-729.86	1050.96	.036	7	.027	7	4.5	4.5	.095	5
606- 626	JL6-01	.233	7	6.1	846.09	-44.29	845.91	241.79	.009	7	.008	7	4.5	4.5	.099	5
621- 651	JL5-01	.084	7	6.1	-52.67	560.52	708.55	-2438.71	.034	7	.022	7	4.5	4.5	.039	5
622- 703	200-01	.219	7	21.8	66.70	-30.25	323.02	-469.84	.041	7	.035	7	30.5	30.5	.093	5
623- 653	JL6-01	.231	7	6.1	-547.91	-466.01	-1241.82	1617.49	.033	7	.023	7	4.5	4.5	.101	5
624- 701	200-01	.207	7	21.9	88.10	34.94	58.18	419.63	.040	7	.033	7	30.7	30.7	.084	5
625- 706	200-01	.235	7	21.9	-142.55	-16.87	-208.70	99.41	.020	7	.017	7	30.7	30.7	.102	5
626- 656	JL5-01	.233	7	1.5	845.48	-43.90	873.58	202.20	.008	7	.007	7	4.5	4.5	.099	5
651- 701	JL6-01	.083	7	0.0	-58.35	979.10	677.52	-2315.26	.069	7	.047	7	5.3	5.3	.038	5
653- 703	JL6-01	.245	7	0.0	-584.85	-565.10	-1279.33	1695.47	.059	7	.027	7	5.3	5.3	.108	5
656- 706	JL6-01	.250	7	0.0	844.05	-43.90	805.30	-7.76	.015	7	.014	7	5.3	5.3	.096	5
701- 702	137-01	.229	7	18.8	43.30	-6.66	-28.50	-165.74	.030	7	.026	7	83.1	41.5	.133	6
701- 704	137-01	.141	7	18.8	-8.29	-11.85	-3.82	-150.72	.035	7	.028	7	83.1	41.5	.121	8
701- 801	JL7-01	.096	7	14.2	54.13	340.91	23.47	-1135.35	.053	7	.038	7	21.4	21.4	.043	5
701- 806	200-01	.293	7	0.0	-105.16	-28.40	-253.09	-531.71	.038	7	.032	7	70.3	70.3	.134	5
702- 703	137-01	.199	7	0.0	48.12	4.50	-26.84	-109.30	.025	8	.021	7	83.1	41.5	.131	8
702- 704	107-01	.030	7	18.8	-.52	2.63	19.25	-2.24	.010	7	.007	6	61.3	61.3	.030	6
702- 705	107-01	.134	7	18.8	-6.89	-1.53	6.04	-71.52	.026	7	.025	7	61.3	61.3	.059	5
703- 705	137-01	.165	7	0.0	-21.15	-3.72	4.95	-125.41	.024	8	.017	8	83.1	41.5	.117	6
703- 801	200-01	.321	7	0.0	-106.02	27.44	-106.40	657.02	.039	7	.034	7	70.3	70.3	.143	5
703- 803	JL7-01	.405	7	7.1	-408.74	197.98	-1104.60	865.36	.042	7	.034	7	21.4	21.4	.175	5
704- 705	107-01	.134	7	0.0	7.41	.04	5.32	-74.50	.023	7	.023	7	61.3	61.3	.060	5
704- 706	137-01	.127	8	18.8	1.65	7.35	165.38	-.20	.028	7	.022	7	83.1	41.6	.106	7
705- 706	137-01	.179	7	18.8	-31.64	-1.82	68.97	65.60	.025	8	.019	8	83.1	41.6	.125	8
705- 803	200-01	.324	7	0.0	167.69	-4.53	371.06	-169.32	.014	7	.013	7	70.3	70.3	.142	5
705- 806	JL7-01	.357	7	14.2	454.55	-278.26	1034.03	376.15	.048	7	.036	7	21.4	21.4	.150	5
710- 810	P2-01	.052	7	0.0	12.34	-55.84	674.05	-2777.62	.003	7	.002	7	24.1	24.1	.024	5
711- 811	P2-01	.165	7	0.0	672.96	181.86	-2394.62	2541.28	.008	7	.005	7	24.1	24.1	.078	5
712- 812	P2-01	.163	7	28.4	-699.57	184.01	2364.58	1208.21	.008	7	.005	7	24.1	24.1	.074	5
801- 802	140-01	.112	7	22.8	2.60	-5.79	-33.26	-171.87	.023	7	.021	7	91.6	45.8	.055	6
801- 804	140-01	.213	7	22.8	-29.18	-15.57	-12.21	-108.75	.034	7	.026	7	91.6	45.8	.091	5
801- 901	JL5-01	.090	7	16.2	-67.64	-64.27	-67.54	-805.65	.023	7	.020	7	24.5	24.5	.038	5
801- 903	200-01	.270	7	59.6	109.84	-30.24	108.50	-548.94	.031	7	.025	7	83.5	83.5	.109	5
802- 803	140-01	.081	7	0.0	7.40	12.50	-31.84	-100.86	.025	7	.019	7	91.6	45.8	.054	6
802- 804	105-01	.029	7	22.8	.45	3.98	18.69	-2.30	.012	7	.008	7	74.5	74.5	.019	6
802- 805	105-01	.133	7	0.0	-6.63	-3.30	-9.28	-68.83	.025	7	.021	7	74.5	74.5	.049	5
803- 805	145-01	.114	7	0.0	28.45	-3.36	-24.81	-80.70	.013	8	.009	8	91.6	45.8	.086	8
803- 903	JL5-01	.219	7	6.1	-274.95	-123.18	-557.28	190.42	.028	7	.022	7	24.5	24.5	.091	5

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NO.	GROUP ID	MAXIMUM COMBINED UNITY CK	LOAD COND	DIST FROM END(FT)	FORCE FX KIPS	TORSION MX IN-KIPS	MOMENT MY IN-KIPS	MOMENT MZ IN-KIPS	Z-AXIS SHEAR UNITY CK	LD CN	Y-AXIS SHEAR UNITY CK	LD CN	KLY/RY	KLZ/RZ	NEXT HIGH UN.CK.	LD CN
					/-------- CONTROLLING	MEMBER ACTIONS	--------/									
803- 906	200-01	.452	7	0.0	-201.39	-.72	-315.52	-192.63	.007	7	.007	7	83.5	83.5	.186	5
804- 805	100-01	.122	7	22.0	6.19	.12	-4.12	-69.78	.018	7	.018	7	74.5	74.5	.048	5
804- 806	140-01	.191	7	0.0	-35.31	10.48	-11.00	-129.55	.025	7	.020	7	91.6	45.8	.082	8
805- 806	140-01	.155	7	22.0	19.46	-6.75	108.79	149.14	.014	7	.011	7	91.6	45.8	.073	8
806- 901	200-01	.281	7	0.0	115.80	25.42	308.21	510.11	.030	7	.026	7	83.5	83.5	.116	5
806- 906	JL6-01	.258	7	16.2	332.01	355.88	556.16	513.50	.051	7	.035	7	24.5	24.5	.107	5
810- 910	P2-01	.040	7	0.0	12.34	-57.45	-34.19	-2147.36	.005	7	.004	7	27.5	27.5	.016	5
811- 911	P2-01	.168	7	0.0	672.95	182.93	-2370.01	817.20	.012	7	.009	7	27.5	27.5	.067	5
812- 912	P2-01	.165	7	0.0	-699.85	184.55	2364.56	1208.13	.011	7	.008	7	27.5	27.5	.075	5
901- 902	169-01	.143	7	27.4	-17.90	-9.76	-30.70	-169.33	.022	7	.018	7	96.0	48.0	.064	5
901- 904	169-01	.250	7	27.4	-55.68	-14.76	-22.05	-211.44	.026	7	.020	7	96.0	48.0	.107	5
901-1001	JL9-01	.028	7	16.2	1.03	-211.89	-108.92	-504.61	.030	7	.021	7	24.5	24.5	.016	5
901-1002	180-01	.228	7	42.2	91.95	-18.54	91.83	-179.87	.023	7	.018	7	65.5	65.5	.088	5
901-1004	180-01	.200	7	42.2	-99.95	-13.74	-118.56	-147.36	.020	7	.016	7	65.5	65.5	.114	5
902- 903	169-01	.098	7	0.0	-13.85	6.95	-26.60	-119.23	.016	7	.013	7	96.0	48.0	.044	5
902- 904	169-01	.027	7	27.4	.28	4.69	18.14	.19	.013	7	.008	7	89.5	89.5	.013	5
902- 905	199-01	.127	7	0.0	-5.88	-2.07	-9.45	-64.80	.018	7	.015	7	89.5	89.5	.050	5
903- 905	169-01	.191	7	0.0	70.03	-2.39	-55.37	-112.12	.005	7	.004	7	96.0	48.0	.077	5
903-1002	180-01	.205	7	0.0	-93.27	8.49	-68.41	175.85	.018	7	.015	7	65.5	65.5	.108	5
903-1003	JL9-01	.042	7	0.0	-29.56	185.20	395.49	-339.67	.027	7	.019	7	24.5	24.5	.018	5
903-1005	180-01	.448	7	0.0	-170.44	21.51	-164.08	-117.62	.021	7	.015	7	65.5	65.5	.178	5
904- 905	109-01	.120	7	27.4	5.64	-1.79	-2.15	-69.50	.018	7	.016	7	89.6	89.6	.043	5
904- 906	169-01	.244	7	0.0	-59.33	12.36	-20.22	-154.23	.021	7	.016	7	96.0	48.0	.102	5
905- 906	169-01	.205	7	27.4	62.27	-5.18	123.29	145.20	.009	7	.007	7	96.0	48.0	.091	5
906-1004	180-01	.241	7	0.0	100.70	-1.25	109.18	166.58	.014	7	.014	7	65.5	65.5	.095	5
906-1005	180-01	.350	7	42.2	170.83	7.92	172.43	20.70	.013	7	.010	7	65.5	65.5	.142	5
906-1006	JL9-01	.042	7	16.2	19.49	115.77	282.97	463.33	.023	7	.018	7	24.5	24.5	.017	5
1010- 910	P3-01	.120	7	0.0	12.33	-57.43	599.75	6660.19	.012	7	.011	7	27.5	27.5	.039	5
1011- 911	P3-01	.250	7	0.0	672.98	183.51	-6339.54	-3410.72	.019	7	.016	7	27.5	27.5	.091	5
1012- 912	P3-01	.248	7	0.0	-699.89	184.55	5972.83	-1850.06	.016	7	.013	7	27.5	27.5	.069	5
1001-1002	200-01	.277	7	0.0	-124.18	13.87	167.55	115.67	.013	7	.011	7	89.8	44.9	.114	5
1001-1004	200-01	.192	7	0.0	117.79	34.43	-170.37	117.77	.022	7	.015	7	89.8	44.9	.078	5
1002-1003	200-01	.030	7	24.0	3.01	-52.71	-67.25	89.50	.027	7	.016	7	89.8	44.9	.014	8
1002-1004	140-01	.091	7	32.0	.10	17.57	114.61	.52	.028	7	.017	7	63.8	63.8	.035	5
1002-1005	140-01	.119	7	0.0	-9.70	-7.30	-84.27	-81.67	.019	7	.014	7	63.8	63.8	.044	5
1003-1005	200-01	.229	7	0.0	129.75	4.35	-245.72	-176.08	.006	7	.005	7	89.8	44.9	.091	5
1004-1005	140-01	.096	7	0.0	9.59	-10.78	65.28	-55.85	.023	7	.016	7	63.8	63.8	.038	8
1004-1006	200-01	.067	7	32.0	-19.40	-28.74	131.85	-25.74	.017	7	.012	7	89.8	44.9	.027	5
1005-1006	200-01	.261	7	32.0	-105.26	4.18	251.23	148.57	.005	7	.005	7	89.8	44.9	.105	5

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DATE 10/05/76

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NO.	GROUP ID	MAXIMUM COMBINED UNITY CK	LOAD COND NO.	DIST FROM END(FT)	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	KLY/RY	KLZ/RZ	SECOND-HIGHEST UNITY CHECK	LOAD COND	THIRD-HIGHEST UNITY CHECK	LOAD COND
101- 102	W10-01	.030	7	0.0	.00	.00	.64	.06	-.01	49.5	55.2	.007	5	.003	8
101- 104	W10-01	.030	7	0.0	-.00	-.00	.65	.06	.00	49.4	55.2	.008	5	.003	8
101- 201	DRL-01	.002	7	15.0	-.00	-.04	0.00	-.10	.11	17.5	17.5	.001	5	.000	3
102- 103	W10-01	.019	7	14.5	.01	-.02	.39	-.04	-.01	49.5	55.2	.004	5	.002	8
102- 104	W09-01	.004	7	0.0	.00	-.00	-.08	-.00	.00	50.9	108.3	.001	5	.000	3
102- 105	W09-01	.006	7	14.5	-.02	.00	-.10	.00	.00	50.9	108.3	.002	5	.001	8
103- 105	W14-01	.014	7	0.0	.00	-.01	-.29	-.02	.01	49.4	55.2	.003	5	.002	8
103- 203	DRL-01	.002	7	15.0	.00	.04	0.00	.17	-.01	17.5	17.5	.000	5	.000	3
104- 105	W09-01	.005	7	14.5	.01	-.00	-.10	.00	-.00	50.9	108.4	.002	5	.001	8
104- 106	W10-01	.021	7	14.5	-.00	.01	.45	-.04	.00	49.5	55.2	.007	5	.003	3
105- 106	W10-01	.016	7	14.5	-.00	.01	.35	-.02	.01	49.5	55.2	.006	5	.002	3
105- 206	DRL-01	.002	7	15.0	.00	.06	0.00	-.08	-.20	17.5	17.5	.000	5	.000	3
201- 202	W10-01	.034	7	0.0	.14	.01	.68	.06	-.00	49.5	55.2	.009	5	.004	8
201- 204	W10-01	.033	7	0.0	-.02	.00	.69	.06	-.01	49.4	55.2	.009	5	.004	8
201- 301	DRL-01	.009	7	15.0	.01	.20	0.00	.24	.62	17.5	17.5	.003	5	.002	3
201- 303	120-01	.022	7	0.0	-.14	-.32	0.00	.03	.02	72.3	72.3	.005	5	.002	3
202- 203	W10-01	.026	7	14.5	.14	-.01	.41	-.04	-.00	49.5	55.2	.006	5	.003	8
202- 204	W08-01	.004	7	0.0	.00	.00	-.09	-.01	-.00	50.9	108.3	.001	5	.000	3
202- 205	W08-01	.005	7	14.5	-.02	-.00	-.11	.00	.00	50.9	108.3	.002	5	.001	8
203- 205	W13-01	.015	7	0.0	.03	.00	-.32	-.02	-.00	49.4	55.2	.004	5	.002	8
203- 303	DRL-01	.038	7	15.0	.02	.87	0.00	.95	2.93	17.5	17.5	.009	5	.003	3
203- 306	120-01	.032	7	32.6	-.22	-.42	0.00	-.12	.03	72.3	72.3	.008	5	.003	8
204- 205	W08-01	.006	7	14.5	.02	.00	-.11	.00	.00	50.9	108.4	.002	5	.001	8
204- 206	W13-01	.023	7	14.5	-.02	-.02	.46	-.05	-.01	49.5	55.2	.008	5	.003	3
205- 206	W10-01	.018	7	14.5	.02	-.01	.36	-.03	-.00	49.5	55.2	.008	5	.003	3
205- 301	120-01	.026	7	32.6	.17	.43	0.00	.06	-.01	72.3	72.3	.005	5	.002	8
206- 306	DRL-01	.028	7	15.0	-.02	-.64	0.00	.97	2.29	17.5	17.5	.005	5	.002	3
301- 303	125-01	.059	7	0.0	-.24	-.58	0.00	.10	.03	64.2	64.2	.011	5	.004	3
301- 306	125-01	.057	7	0.0	-.25	-.54	0.00	.07	.08	64.2	64.2	.006	5	.002	8
301- 401	DRL-01	.058	7	28.5	-.04	-.86	0.00	5.45	-9.03	33.3	33.3	.010	5	.005	3
303- 306	125-01	.053	7	0.0	.27	.64	0.00	-.18	.10	64.2	64.2	.012	5	.004	3
303- 403	DRL-01	.070	7	28.5	.01	1.65	0.00	2.59	-11.99	33.3	33.3	.017	5	.007	3
306- 406	DRL-01	.031	7	0.0	-.04	-.68	0.00	-2.19	-.49	33.3	33.3	.016	5	.006	3
401- 501	JL4-01	.025	7	4.6	-.06	-.55	0.00	-30.09	-3.03	3.3	3.3	.008	5	.004	3
401- 510	P1-01	.012	7	0.0	.06	.23	0.00	14.62	3.63	3.9	3.9	.009	5	.004	3
403- 503	JL4-01	.148	7	4.6	-2.62	-.65	0.00	17.69	21.69	3.3	3.3	.055	5	.025	8
403- 511	P1-01	.160	7	0.0	3.04	.46	0.00	-5.42	1.91	3.9	3.9	.060	5	.029	8
406- 506	JL4-01	.133	7	4.6	2.73	.26	0.00	8.15	-15.52	3.3	3.3	.053	5	.022	3
406- 512	P1-01	.154	7	4.6	-3.16	-.15	0.00	-3.86	4.27	3.9	3.9	.065	5	.027	3
501- 502	165-01	.087	7	0.0	.41	1.62	0.00	-.03	-.04	53.5	26.7	.036	5	.020	8
501- 504	165-01	.202	7	0.0	-2.13	-1.99	0.00	.17	.98	53.5	26.7	.076	5	.028	3
501- 601	JL5-01	.047	7	6.1	-.38	-.71	0.00	25.66	7.29	4.5	4.5	.025	5	.011	3
501- 622	200-01	.205	7	0.0	1.75	2.94	0.00	-6.21	-2.98	28.6	28.6	.085	5	.031	3
502- 503	165-01	.072	7	0.0	.64	1.00	0.00	-2.76	-.51	53.5	26.7	.030	5	.014	8
502- 504	105-01	.034	7	15.2	.10	.71	0.00	-.10	.26	49.5	49.5	.012	5	.004	3
502- 505	105-01	.122	7	15.2	-.81	-1.85	0.00	1.59	-.01	49.5	49.5	.054	5	.006	3
503- 505	165-01	.130	7	0.0	1.39	1.57	0.00	-.60	.62	53.5	26.7	.039	5	.011	8
505- 605	JL5-01	.223	7	0.0	-3.85	-1.05	0.00	-22.80	-17.66	4.5	4.5	.086	5	.041	8

S T R A N   M E M B E R   S T R E S S   R E P O R T   N O .   3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NO.	GROUP ID	MAXIMUM COMBINED UNITY CK	LOAD COND NO.	DIST FROM END(FT)	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	SHEAR FORCE FY KIPS	SHEAR FORCE FZ KIPS	KLY/RY	KLZ/RZ	SECOND-HIGHEST UNITY CHECK	SECOND-HIGHEST LOAD COND	THIRD-HIGHEST UNITY CHECK	THIRD-HIGHEST LOAD COND
503- 625	200-01	.274	7	0.0	-3.75	-2.39	0.00	-1.05	3.64	28.4	28.4	.109	5	.046	3
504- 505	105-01	.118	7	15.2	.70	2.05	0.00	1.66	-.28	49.5	49.5	.053	5	.005	3
504- 506	165-01	.188	7	0.0	-2.29	-1.45	0.00	-3.50	.61	53.5	26.7	.073	5	.026	3
505- 506	165-01	.147	7	15.2	1.00	2.40	0.00	-1.75	.90	53.5	26.7	.049	5	.013	3
506- 606	JL5-01	.223	7	6.1	4.51	.33	0.00	-1.01	5.36	4.5	4.5	.095	5	.041	3
506- 624	200-01	.258	7	0.0	2.52	3.58	0.00	6.98	-1.63	28.4	28.4	.104	5	.036	3
510- 710	P1-01	.059	7	25.3	.06	1.34	0.00	8.11	1.60	21.4	21.4	.027	5	.015	8
511- 711	P1-01	.210	7	25.3	3.04	1.63	0.00	-10.30	-10.17	21.4	21.4	.088	5	.043	6
512- 712	P1-01	.165	7	25.3	-3.16	-.64	0.00	1.69	5.98	21.4	21.4	.077	5	.034	3
601- 621	JL6-01	.072	7	6.1	-.37	-1.30	0.00	9.26	2.67	4.5	4.5	.035	5	.016	3
603- 623	JL6-01	.212	7	6.1	-3.85	-.80	0.00	-9.77	-8.25	4.5	4.5	.095	5	.043	3
606- 626	JL6-01	.233	7	6.1	4.52	.55	0.00	1.94	2.97	4.5	4.5	.099	5	.043	3
621- 651	JL6-01	.064	7	6.1	-.37	-1.60	0.00	2.55	2.49	4.5	4.5	.039	5	.016	3
622- 703	200-01	.219	7	21.8	1.75	3.28	0.00	6.81	4.11	30.5	30.5	.093	5	.036	3
623- 653	JL6-01	.231	7	6.1	-3.83	-1.28	0.00	-6.19	-4.52	4.5	4.5	.101	5	.046	3
624- 701	200-01	.207	7	21.9	2.32	2.37	0.00	-6.95	1.73	30.7	30.7	.084	5	.031	3
625- 706	200-01	.236	7	21.9	-3.75	-1.29	0.00	-.09	-3.78	30.7	30.7	.102	5	.047	3
626- 656	JL6-01	.233	7	1.5	4.52	.56	0.00	2.56	.86	4.5	4.5	.099	5	.044	8
651- 701	JL6-01	.063	7	0.0	-.41	-1.52	0.00	-19.11	-3.67	5.3	5.3	.038	5	.017	3
653- 703	JL6-01	.245	7	0.0	-4.09	-1.33	0.00	8.04	3.25	5.3	5.3	.108	5	.048	3
656- 706	JL6-01	.250	7	0.0	4.51	.51	0.00	5.08	-3.61	5.3	5.3	.096	5	.044	8
701- 702	137-01	.229	7	18.8	2.25	2.97	0.00	2.99	-.26	83.1	41.5	.133	8	.104	5
701- 704	137-01	.141	7	18.8	-.43	-2.66	0.00	2.88	-.03	83.1	41.5	.121	8	.073	6
701- 801	JL7-01	.096	7	14.2	.77	1.44	0.00	-1.83	-1.35	21.4	21.4	.043	5	.023	8
701- 806	200-01	.298	7	0.0	-2.76	-3.30	0.00	-6.89	2.60	70.3	70.3	.134	5	.060	3
702- 703	137-01	.199	7	0.0	2.50	1.98	0.00	-2.51	-.02	83.1	41.5	.131	8	.091	5
702- 704	107-01	.030	7	18.8	-.04	-.65	0.00	.04	.35	61.3	61.3	.030	8	.018	6
702- 705	107-01	.134	7	18.8	-.58	-2.40	0.00	1.96	.11	61.3	61.3	.059	5	.033	8
703- 705	137-01	.165	7	0.0	-1.10	-2.21	0.00	-.97	-.43	83.1	41.5	.117	8	.084	5
703- 801	200-01	.321	7	0.0	-2.79	-3.82	0.00	7.71	1.32	70.3	70.3	.143	5	.064	3
703- 803	JL7-01	.403	7	7.1	-6.91	-1.80	0.00	.62	-2.62	21.4	21.4	.173	5	.093	8
704- 705	107-01	.154	7	0.0	.62	2.50	0.00	-1.95	.06	61.3	61.3	.060	5	.035	8
704- 706	137-01	.127	8	18.8	.09	2.92	0.00	-.11	1.97	83.1	41.6	.106	7	.076	6
705- 706	137-01	.179	7	18.8	-1.64	-1.65	0.00	-.48	.53	83.1	41.6	.125	8	.069	5
706- 805	200-01	.324	7	0.0	4.93	2.28	0.00	-.70	-3.33	70.3	70.3	.142	5	.066	3
705- 806	JL7-01	.357	7	14.2	6.43	1.40	0.00	-1.90	-1.57	21.4	21.4	.150	5	.062	8
710- 810	P2-01	.052	7	0.0	.05	1.19	0.00	-1.85	-2.09	24.1	24.1	.024	5	.013	8
711- 811	P2-01	.165	7	0.0	2.66	1.46	0.00	5.07	.07	24.1	24.1	.078	5	.036	8
712- 812	P2-01	.183	7	28.4	-2.78	-1.11	0.00	-4.13	1.67	24.1	24.1	.074	5	.034	8
801- 802	140-01	.112	7	22.8	.13	2.53	0.00	2.68	-.22	91.6	45.8	.053	8	.044	5
801- 804	140-01	.213	7	22.8	-1.38	-2.74	0.00	2.75	.04	91.6	45.8	.091	5	.089	8
801- 901	JL6-01	.090	7	16.2	-.96	-1.03	0.00	-.51	-.99	24.5	24.5	.038	5	.024	8
801- 903	200-01	.270	7	59.6	2.89	3.25	0.00	4.49	1.94	83.5	83.5	.109	5	.080	8
802- 803	140-01	.061	7	0.0	.55	1.53	0.00	-1.93	-.08	91.6	45.8	.054	8	.033	5
802- 804	105-01	.029	7	22.8	.04	.63	0.00	.00	.28	74.5	74.5	.019	8	.014	5
802- 805	100-01	.135	7	0.0	-.56	-2.32	0.00	-1.46	-.02	74.5	74.5	.049	5	.026	8
803- 805	140-01	.114	7	0.0	1.34	1.22	0.00	-.45	-.32	91.6	45.8	.086	8	.053	6
803- 903	JL6-01	.219	7	8.1	-3.89	-.75	0.00	-1.13	-1.20	24.5	24.5	.091	5	.061	8

S T R A N   M E M B E R   S T R E S S   R E P O R T   N O .   3

U.S. NAVY - ACMR PLATFORMS - FATIGUE ANALYSIS - MLW 105.0 FEET

MEMBER NO.	GROUP ID	MAXIMUM COMBINED UNITY CK	LOAD COND NO.	DIST FROM END(FT)	AXIAL STRESS KSI	BENDING STRESS Y KSI	BENDING STRESS Z KSI	/----SHEAR FORCE----/ FY KIPS	FZ KIPS	KLY/RY	KLZ/RZ	SECOND-HIGHEST UNITY CHECK	LOAD COND	THIRD-HIGHEST UNITY CHECK	LOAD COND
803- 906	200-01	.452	7	0.0	-5.29	-2.07	0.00	-.64	1.73	83.5	83.5	.186	5	.088	8
804- 805	108-01	.122	7	22.8	.52	2.54	0.00	1.51	-.06	74.5	74.5	.048	5	.029	8
804- 806	140-01	.191	7	0.0	-1.57	-1.88	0.00	-2.26	.31	91.6	45.8	.082	8	.082	5
805- 806	140-01	.155	7	22.8	.92	2.67	0.00	-.86	.68	91.6	45.8	.073	8	.068	5
806- 901	200-01	.201	7	0.0	3.05	3.34	0.00	5.34	-1.83	83.5	83.5	.116	5	.073	8
806- 906	JL6-01	.258	7	16.2	4.70	.96	0.00	-.31	-2.62	24.5	24.5	.107	5	.070	8
810- 910	P2-01	.040	7	0.0	.05	.90	0.00	-6.35	-1.70	27.5	27.5	.016	5	.013	8
811- 911	P2-01	.168	7	0.0	2.66	1.04	0.00	4.96	10.94	27.5	27.5	.067	5	.036	8
812- 912	P2-01	.165	7	0.0	-2.76	-1.11	0.00	.46	-9.52	27.5	27.5	.075	5	.034	8
901- 902	169-01	.143	7	27.4	-.74	-2.10	0.00	2.48	-.24	96.0	48.0	.064	5	.028	8
901- 904	169-01	.256	7	27.4	-2.29	-2.32	0.00	2.55	.04	96.0	48.0	.107	5	.056	8
901-1001	JL9-01	.028	7	16.2	.01	.66	0.00	-.58	.60	24.5	24.5	.016	8	.011	5
901-1002	180-01	.226	7	42.2	3.35	1.73	0.00	2.19	1.05	65.5	65.5	.088	5	.070	8
901-1004	180-01	.260	7	42.2	-3.64	-1.62	0.00	2.09	-1.12	65.5	65.5	.114	5	.065	8
902- 903	169-01	.096	7	0.0	-.57	-1.34	0.00	-1.82	-.13	96.0	48.0	.044	5	.020	3
902- 904	109-01	.027	7	27.4	.02	.61	0.00	-.02	.21	89.5	89.5	.013	5	.012	8
902- 905	109-01	.127	7	0.0	-.49	-2.19	0.00	-1.12	-.05	89.5	89.5	.050	5	.031	8
903- 905	169-01	.191	7	0.0	2.88	1.37	0.00	-.45	-.03	96.0	48.0	.077	5	.067	8
903-1002	180-01	.265	7	0.0	-3.39	-1.61	0.00	2.48	.59	65.5	65.5	.108	5	.054	8
903-1003	JL9-01	.042	7	0.0	-.29	-.66	0.00	-3.13	-4.58	24.5	24.5	.018	5	.017	8
903-1005	150-01	.448	7	0.0	-6.20	-1.67	0.00	-.52	1.58	65.5	65.5	.178	5	.101	8
904- 905	109-01	.120	7	27.4	.47	2.33	0.00	1.23	-.04	89.6	89.6	.043	5	.033	8
904- 906	169-01	.244	7	0.0	-2.44	-1.70	0.00	-2.05	.29	96.0	48.0	.102	5	.050	8
905- 906	169-01	.206	7	27.4	2.56	2.08	0.00	-.73	.57	96.0	48.0	.091	5	.054	8
905-1004	180-01	.241	7	0.0	3.66	1.70	0.00	2.48	-.94	65.5	65.5	.095	5	.072	8
905-1005	180-01	.350	7	42.2	6.21	1.48	0.00	-.10	1.55	65.5	65.5	.142	5	.116	8
905-1006	JL9-01	.042	7	16.2	.28	.69	0.00	1.19	-.47	24.5	24.5	.017	5	.017	8
1010- 910	P3-01	.120	7	0.0	.05	2.79	0.00	17.92	-3.33	27.5	27.5	.039	5	.026	8
1011- 911	P3-01	.250	7	0.0	2.58	3.00	0.00	-11.62	21.14	27.5	27.5	.091	5	.055	8
1012- 912	P3-01	.248	7	0.0	-2.78	-2.61	0.00	-2.11	-16.78	27.5	27.5	.089	5	.047	8
1001-1002	200-01	.277	7	0.0	-4.26	-1.14	0.00	-.86	-.70	89.8	44.9	.114	5	.055	8
1001-1004	200-01	.192	7	0.0	3.10	1.16	0.00	-.87	.60	89.8	44.9	.078	5	.071	8
1002-1003	200-01	.030	7	24.0	.08	.63	0.00	.45	-.40	89.8	44.9	.014	8	.011	5
1002-1004	140-01	.091	7	32.0	.01	2.15	0.00	-.01	.58	63.8	63.8	.035	5	.029	8
1002-1005	140-01	.118	7	0.0	-.60	-1.96	0.00	-.97	.33	63.8	63.8	.044	5	.039	8
1003-1005	200-01	.229	7	0.0	3.41	1.69	0.00	-.62	1.05	89.8	44.9	.091	5	.087	8
1004-1005	140-01	.096	7	0.0	.60	1.61	0.00	-.94	-.25	63.8	63.8	.038	8	.034	5
1004-1006	200-01	.067	7	32.0	-.51	-.75	0.00	1.35	.58	89.8	44.9	.027	5	.017	8
1005-1006	200-01	.261	7	32.0	-2.77	-1.63	0.00	-.54	.90	89.8	44.9	.105	5	.059	8

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PUYORCD.   10/05/76. *UNITED COMPUTING* 67. APEX/SL H.8.0

20.02.21$STRAN,CM100,T500,LS.
20.02.22$FL        64      0.000
20.02.22$ACS401COM0031,277/101JT JB
20.02.22. 10/05/76,PUYORCD
20.02.22$FL      5392      0.001
20.02.22.GET,TAPE20=SPFILE(LIBRARY)
20.02.40.READY =    SPFILE
20.02.40.GET,STRAN=STRANS(LIBRARY)
20.02.40.DAP READY =          STRANS
20.02.40.GET,TAPE5=S771J83.
20.02.46.READY =    S771J83
20.02.46.MFL,170000.
20.02.46$FL      4096      0.002        0         0.
20.02.46$FI       419          3
20.02.46.STRAN.
20.02.46$FLS  61440      0.002
20.02.47$FLA  61440      0.357      336        9
20.02.47.FL REQUIRED TO LOAD       62073B ( 25659)
20.02.47.FL REQUIRED TO EXECUTE   52100B ( 21568)
20.02.47$FL   61440      0.373
20.03.09.$SC START STRANS
20.03.09.
20.03.09.  SSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
20.03.09. SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
20.03.09. SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
20.03.09. SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
20.03.09. SSSSSSS
20.03.09. SSSSSSS TTTTTTTTTTTTTTTTTTTTTTT
20.03.09. SSSSSSS TTTTTTTTTTTTTTTTTTTTTTT
20.03.09. SSSSSSS TTTTTTTTTTTTTTTTTTTTTTT
20.03.09. SSSSSSS         TTTTTTT
20.03.09. SSSSSSSSSSSSSSS TTTTTTT SSSSSS
20.03.09. SSSSSSSSSSSSSSS TTTTTTT SSSSSSS
20.03.09. SSSSSSSSSSSSSSS TTTTTTT SSSSSSS
20.03.09. SSSSSSSSSSSSSSS TTTTTTT SSSSSSS
20.03.09.                 TTTTTTT SSSSSSS
20.03.09. SSSSSSSSSSSSSSS TTTTTTT SSSSSSS
20.03.09. SSSSSSSSSSSSSSS TTTTTTT SSSSSSS
20.03.09. SSSSSSSSSSSSSSS TTTTTTT SSSSSSS
20.03.09. SSSSSSSSSSSSSSS TTTTTTT SSSSSS
20.03.09.
20.03.09.     SYNERCOM TECHNOLOGY, INC.
20.03.09.      S T R A N S
20.03.15.          400 15
20.07.50.U.S. NAVY - ACMR PLATFORMS - FATIGUE ANA
20.07.50.LYSIS - MLW 105.0 FEET
20.07.50.10/05/76
20.07.50...  5 UNITS      99 JOINTS     182 MEMBERS
20.07.50...  8 BASIC LOADS ON  2389 LOAD CARDS
20.07.50...  8 LOADS SELECTED FOR PROCESSING
20.07.50...UNITY CHECK REQUESTED
20.08.14.UNIT  1, 20 JT ELIM, 11 JT FWD, CYCLE  1
20.09.14.UNIT  2, 20 JT ELIM, 15 JT FWD, CYCLE  1
20.10.12.UNIT  3, 20 JT ELIM,  6 JT FWD, CYCLE  1
20.11.44.UNIT  4, 20 JT ELIM, 12 JT FWD, CYCLE  1
20.13.50.UNIT  5, 18 JT ELIM,  0 JT FWD, CYCLE  1
```

```
20.14.0_, UNIT 5, 18 JT ELIM, 0 JT FWD, CYCLE 2
20.14.16.BACKWARD SUBSTITUTION
20.14.20.            .0000            .0002
20.15.18.UNIT  5, 18 JT ELIM,  0 JT FWD, CYCLE 1
20.15.24.BACKWARD SUBSTITUTION
20.15.33.    0       .0000            .0015
20.15.45.UNIT  5, 18 JT ELIM,  0 JT FWD, CYCLE 2
20.15.51.BACKWARD SUBSTITUTION
20.16.10.    0       .0000            .0010
20.16.31.UNIT  5, 18 JT ELIM,  0 JT FWD, CYCLE 1
20.16.37.BACKWARD SUBSTITUTION
20.16.40.    0       .0017            .0225
20.16.55.UNIT  5, 18 JT ELIM,  0 JT FWD, CYCLE 2
20.17.02.BACKWARD SUBSTITUTION
20.17.05.    0       .0001            .0015
20.17.45.UNIT  5, 18 JT ELIM,  0 JT FWD, CYCLE 1
20.17.48.BACKWARD SUBSTITUTION
20.17.51.    0       .0012            .0235
20.18.06.UNIT  5, 18 JT ELIM,  0 JT FWD, CYCLE 2
20.18.12.BACKWARD SUBSTITUTION
20.19.07.    0       .0000            .0002
20.19.28.UNIT  5, 18 JT ELIM,  0 JT FWD, CYCLE 1
20.19.38.BACKWARD SUBSTITUTION
20.19.38.    1       .0555            .3286
20.20.19.UNIT  5, 18 JT ELIM,  0 JT FWD, CYCLE 2
20.20.25.BACKWARD SUBSTITUTION
20.20.26.    0       .0069            .0399
20.20.45.UNIT  5, 18 JT ELIM,  0 JT FWD, CYCLE 1
20.20.53.BACKWARD SUBSTITUTION
20.20.57.    0       .0232            .5316
20.21.25.UNIT  5, 18 JT ELIM,  0 JT FWD, CYCLE 2
20.21.31.BACKWARD SUBSTITUTION
20.21.34.    0       .0010            .0131
20.21.46.UNIT  5, 18 JT ELIM,  0 JT FWD, CYCLE 1
20.21.54.BACKWARD SUBSTITUTION
20.21.55.    3       .3384            .8283
20.22.21.UNIT  5, 18 JT ELIM,  0 JT FWD, CYCLE 2
20.22.26.BACKWARD SUBSTITUTION
20.22.30.    1       .0700            .1278
20.22.44.UNIT  5, 18 JT ELIM,  0 JT FWD, CYCLE 3
20.22.48.BACKWARD SUBSTITUTION
20.22.53.    0       .0136            .0240
20.23.05.UNIT  5, 18 JT ELIM,  0 JT FWD, CYCLE 1
20.23.12.BACKWARD SUBSTITUTION
20.23.14.    3       .0676            .8009
20.23.47.UNIT  5, 18 JT ELIM,  0 JT FWD, CYCLE 2
20.23.50.BACKWARD SUBSTITUTION
20.23.57.    0       .0069            .0650
20.24.04.BACKWARD SUBSTITUTION
20.25.04.PRINTING DEFLECTIONS
20.25.22.COMPUTING FORCES
20.26.29.COMPUTING UNITY CHECK
20.26.38.COMPUTING EQUILIBRIUM
20.26.51.SSC STOP STRANCIA
20.26.52.STOP
20.26.52SS*  52672    83,087    47945     5455,
20.26.52SPI      43          2
20.26.52.REWIND,OUTPUT,
20.26.52SFL     1536     83,087
20.26.52.COPYSF,OUTPUT,JT77109,
20.29.17.COPY COMPLETE,
20.29.18SFL     2560     83,511     5086      296
20.29.18.SAVE,JT77109,
20.30.07.READY =    JT77109
20.30.07.COST,
20.30.09SFL     4048     83,511       0        0,
```

```
2.,30.10.          SERVICE UNITS=    457.4
20.30.10.          JOB COSTS=       68.60
20.30.11SPL   12288     83.535        17        6
20.30.11.EXIT.
20.30.11SJ100  2368     83.535
20.30.11.     *PL*  *CPU SEC. *DISC PRUS* DISC ACC
20.30.11.*P.F. PRUS*P.F. ACC *TAPE PRUS* TAPE ACC
```

APPENDIX C

WAVE FORCES

6000 REMOTE BATCH

UNITED COMPUTING 67, APEX/SL B.6.0

11.25.29.   07/20/76.

```
PPPPPPPPPPP  UU          UU  YY          YY    00000000    NN          NN  UU          UU    AAAAAAAAAA
PPPPPPPPPPPP UU          UU  YY          YY   00      00   NNN         NN  UU          UU   AAAAAAAAAAAA
PP        PP UU          UU  YY          YY  00        00  NNNN        NN  UU          UU   AA        AA
PP        PP UU          UU  YY          YY  00        00  NN NN       NN  UU          UU   AA        AA
PP        PP UU          UU  YY          YY  00        00  NN  NN      NN  UU          UU   AA        AA
PP        PP UU          UU  YY          YY  00        00  NN   NN     NN  UU          UU   AA        AA
PPPPPPPPPPPP UU          UU  YYY        YYY  00        00  NN    NN    NN  UU          UU   AA        AA
PPPPPPPPPPP  UU          UU   YYY      YYY   00        00  NN     NN   NN  UU          UU   AA        AA
PP           UU          UU    YYY    YYY    00        00  NN      NNNN    UU          UU   AAAAAAAAAAAA
PP           UU          UU      YYYY        00        00  NN       NNN    UU          UU   AAAAAAAAAAAA
PP           UU          UU       YY         00        00  NN          NN  UU          UU   AA        AA
PP           UU          UU       YY         00        00  NN          NN  UU          UU   AA        AA
PP           UU          UU       YY         00        00  NN          NN  UU          UU   AA        AA
PP           UU          UU       YY         00        00  NN          NN  UU          UU   AA        AA
PP           UUUUUUUUUUUU         YY          00      00   NN          NN  UUUUUUUUUUUU     AA        AA
PP            UUUUUUUUUU          YY           00000000    NN          NN   UUUUUUUUUU      AA        AA
```

2 FT WAVE HEIGHT

5.9 SEC WAVE PERIOD

1.3 FPS SURFACE CURRENT

(0.8 knot)

```
*************************************************
*                                               *
*                 SEALOAD-2                     *
*                                               *
*   DEVELOPED BY SYNERCOM TECHNOLOGY, INC.      *
*               HOUSTON, TEXAS                  *
*             RELEASE 2  MOD 12                 *
*                 JULY 1976                     *
*                                               *
*************************************************

                    1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

    1  COEF    12.   0.74       1.34
    2          24.   0.74       1.34
    3          36.   0.74       1.34
    4          48.   0.74       1.34
    5          72.   0.74       1.34
    6  END   144.0   0.74       1.34
    7  VCUR              1.0    0.1
    8                   10.7    0.2
    9                   21.3    0.3
   10                   32.0    0.4
   11                   42.7    0.4
   12                   53.4    0.5
   13                   64.0    0.5
   14                   74.7    0.6
   15                   85.4    0.7
   16                   96.0    0.7
   17  END             106.7    0.8
   18                         02 FT WAVE HEIGHT
   19                           C. CHERN
   20                                JULY, 1976
   21                                27-771-01
   22  STRAN    1 60010010010011               DF  1    00  1   20  10670  59   3 11
   23  END
```

**** C O E F F I C I E N T   T A B L E   R E P O R T ****

DIAMETER IN	NORMAL DRAG COEF	TANG DRAG COEF	MASS COEF
12.000	.7400	-0.0000	1.3400
24.000	.7400	-0.0000	1.3400
36.000	.7400	-0.0000	1.3400
48.000	.7400	-0.0000	1.3400
72.000	.7400	-0.0000	1.3400
144.000	.7400	-0.0000	1.3400

02 FT WAVE HEIGHT

C. CHERN

JULY, 1976

27-771-01

INPUT UNITS
....ENGLISH
OUTPUT UNITS
....ENGLISH

**** S T O K E S   W A V E   C O N S T A N T S   R E P O R T ****

```
     WAVE HEIGHT =     2.000   FT
MEAN WATER DEPTH =   106.700   FT
     WAVE PERIOD =     5.900   SEC
     WAVE LENGTH =   178.266   FT
   WAVE CELERITY =    30.214   FT/SEC
             D/L =   .598545
          LAMBDA =    .03523

 BETA =      .03525
  C02 =   32.135192
  A11 =    .46558800E-01
  A13 =   -.29236920E-01
  A15 =   -.36182447E-01
  A22 =    .17618290E-05
  A24 =    .54398257E-03
  A33 =   -.13604161E-07
  A35 =    .21653161E-05
  A44 =    .86852030E-10
  A55 =   -.44141362E-12
  B22 =    .50216900
  B24 =    .71234972
  B33 =    .37744377
  B35 =   1.2051931
  B44 =    .33629345
  B55 =    .32918757
   C1 =   1.0021728
   C2 =   1.2611494
   C3 =   -.54129753E-03
   C4 =    .13737859E-03


D1 TO D5   .49517256E-01   .18276903E-06   -.43273022E-10   .16170619E-13   -.36187653E-17

E1 TO E5   .99952940       .17714035E-01   .47009061E-03    .14697317E-04   .50684025E-06
```

WAVE PROFILE TABLE

THETA=	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.
X(FT)=	0.0	5.0	9.9	14.9	19.8	24.8	29.7	34.7	39.6	44.6	49.5	54.5	59.4	64.4	69.3	74.3	79.2	84.2	89.1
DEPTH(FT)=	107.7	107.7	107.7	107.6	107.5	107.3	107.2	107.0	106.9	106.7	106.5	106.3	106.2-	106.1	105.9	105.8	105.8	105.7	105.7

**** WAVE POSITION SUMMARY REPORT ****

LOAD CONDITION 1

WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG.WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
1	-100.0	201.95	-.8	-1.4	-1.6	126.	-71.	145.	.8
2	-90.0	181.75	-.0	.4	+.4	-33.	-1.	33.	1.0
3	-80.0	161.56	1.1	2.7	+3.0	-235.	91.	252.	.9
4	-70.0	141.36	2.1	4.4	+4.9	-383.	182.	424.	.5
5	-60.0	121.17	2.8	5.9	+6.5	-511.	243.	566.	.3
6	-50.0	100.97	3.3	7.1	+7.9	-615.	294.	681.	.2
7	-40.0	80.78	3.6	7.3	+8.2	-634.	319.	710.	-.1
8	-30.0	60.58	3.6	6.8	+7.7	-585.	315.	664.	-.2
9	-20.0	40.39	3.0	5.6	+6.4	-489.	272.	559.	-.8
10	-10.0	20.19	2.0	3.8	+4.3	-325.	180.	371.	-1.0
11	0.0	-0.00	1.1	1.9	+2.2	-167.	100.	194.	-1.1
12	10.0	-20.19	.1	-.1	.1	8.	6.	10.	-1.0
13	20.0	-40.39	-1.0	-1.8	-2.0	155.	-84.	176.	-.7
14	30.0	-60.58	-1.6	-3.3	-3.7	297.	-139.	329.	-.3
15	40.0	-80.78	-2.1	-4.1	-4.6	364.	-185.	409.	-.2
16	50.0	-100.97	-2.0	-4.0	-4.5	355.	-185.	400.	.1
17	60.0	-121.17	-1.8	-3.4	-3.9	302.	-161.	342.	.4
18	70.0	-141.36	-1.2	-2.5	-2.8	221.	-113.	248.	.7
19	80.0	-161.56	-.8	-1.1	-1.3	99.	-67.	120.	.9
20	90.0	-181.75	.1	.8	+.8	-61.	12.	62.	1.0
21	100.0	-201.95	1.3	3.0	+3.2	-257.	109.	280.	.9

```
**** L O A D   S U M M A R Y   R E P O R T ****

WAVE NUMBER =   1                         WAVE DIRECTION = 60.000

           X SHEAR FORCE =        3.6218 KIPS
           Y SHEAR FORCE =        7.3478 KIPS
   RESULTANT SHEAR FORCE =        8.1920 KIPS

        X MUDLINE MOMENT =     -634.2373 FT-KIPS
        Y MUDLINE MOMENT =      318.6137 FT-KIPS
RESULTANT MUDLINE MOMENT =      709.7687 FT-KIPS

        Z VERTICAL FORCE =        -.0661 KIPS
```

6000 REMOTE BATCH

UNITED COMPUTING 67, APEX/SL B,6,0

11.10.13.   07/20/76.

PUYONQA

7 FT WAVE HEIGHT

7.6 SEC WAVE PERIOD

1.3 FPS SURFACE CURRENT
(0.8 knot)

```
        ******************************************************
        *                                                    *
        *                    SEALOAD-2                       *
        *                                                    *
        *      DEVELOPED BY SYNERCOM TECHNOLOGY, INC.        *                    PAGE    1
        *                HOUSTON, TEXAS                      *
        *              RELEASE 2  MOD 12                     *
        *                 JULY 1976                          *
        *                                                    *
        ******************************************************

LINE NO. 1...5....1....1....2....2....3....3....4....4....5....5....6....6....7....7....8
                  0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

   1  COEF    12.    0.74          1.34
   2          24.    0.74          1.34
   3          36.    0.74          1.34
   4          48.    0.74          1.34
   5          72.    0.74          1.34
   6  END    144.0   0.74          1.34
   7  VCUR              1.0        0.1
   8                   10.7        0.2
   9                   21.3        0.3
  10                   32.0        0.4
  11                   42.7        0.4
  12                   53.4        0.5
  13                   64.1        0.5
  14                   74.8        0.6
  15                   85.5        0.7
  16                   96.2        0.7
  17  END             106.9        0.8
  18                             07 FT WAVE HEIGHT
  19                               C. CHERN
  20                                    JULY, 1976
  21                                    27-771-01
  22  STRAN    1 60014014010011
  23  END                                         DF  1    00  1   70  10690  76  3 11
```

**** C O E F F I C I E N T   T A B L E   R E P O R T ****

DIAMETER IN	NORMAL DRAG COEF	TANG DRAG COEF	MASS COEF
12.000	.7400	-0.0000	1.3400
24.000	.7400	-0.0000	1.3400
36.000	.7400	-0.0000	1.3400
48.000	.7400	-0.0000	1.3400
72.000	.7400	-0.0000	1.3400
144.000	.7400	-0.0000	1.3400

07 FT WAVE HEIGHT

C. CHERN

JULY, 1976

27-771-01

INPUT UNITS
....ENGLISH
OUTPUT UNITS
....ENGLISH

**** S T O K E S   W A V E   C O N S T A N T S   R E P O R T ****

WAVE HEIGHT =	7.000	FT
MEAN WATER DEPTH =	106.900	FT
WAVE PERIOD =	7.600	SEC
WAVE LENGTH =	291.622	FT
WAVE CELERITY =	38.370	FT/SEC
D/L =	.366571	
LAMBDA =	.07523	

BETA =	.02155
CD2 =	31.533787
A11 =	.20148874
A13 =	-.13774501
A15 =	-.18051200
A22 =	.62296328E-03
A24 =	.10693232E-01
A33 =	-.19039055E-04
A35 =	.27418905E-03
A44 =	.40116680E-06
A55 =	-.27377549E-08
B22 =	.54127323
B24 =	.78545573
B33 =	.42275049
B35 =	1.3895169
B44 =	.39239182
B55 =	.40025562
C1 =	1.0426271
C2 =	1.4737885
C3 =	-.99880490E-02
C4 =	.32152711E-02

D1 TO D5	.58046562	.29730221E-03	-.85691995E-06	.19718087E-08	-.12652850E-11
E1 TO E5	3.4914473	.14333077	.85079421E-02	.58320648E-03	.44751281E-04

WAVE PROFILE TABLE

THETA=	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.
X(FT)=	0.0	8.1	16.2	24.3	32.4	40.5	48.6	56.7	64.8	72.9	81.0	89.1	97.2	105.3	113.4	121.5	129.6	137.7	145.8
DEPTH(FT)=	110.5	110.5	110.3	110.0	109.6	109.1	108.6	108.0	107.4	106.8	106.2	105.6	105.1	104.6	104.3	103.9	103.7	103.6	103.5

**** WAVE POSITION SUMMARY REPORT ****

LOAD CONDITION 1 WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG.WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
1	-140.0	172.83	1.3	2.2	+ 2.5	-162.	90.	185.	6.8
2	-130.0	160.48	4.1	7.1	+ 8.2	-513.	282.	585.	6.4
3	-120.0	148.14	5.9	12.0	+ 13.3	-859.	413.	953.	5.9
4	-110.0	135.79	8.0	16.2	+ 18.1	-1163.	582.	1301.	5.2
5	-100.0	123.45	10.5	19.7	+ 22.3	-1416.	757.	1605.	4.6
6	-90.0	111.10	12.5	22.9	+ 26.0	-1653.	893.	1879.	3.7
7	-80.0	98.76	13.8	25.4	+ 28.9	-1852.	1011.	2110.	2.8
8	-70.0	86.41	14.6	27.3	+ 31.0	-2027.	1081.	2297.	1.4
9	-60.0	74.07	15.2	28.3	+ 32.1	-2123.	1143.	2411.	.4
10	-50.0	61.72	15.3	27.9	+ 31.8	-2138.	1160.	2432.	-.7
11	-40.0	49.38	14.7	26.7	+ 30.5	-2078.	1138.	2369.	-1.8
12	-30.0	37.03	13.5	24.3	+ 27.8	-1923.	1068.	2200.	-3.1
13	-20.0	24.69	11.8	20.8	+ 24.0	-1671.	948.	1922.	-4.8
14	-10.0	12.34	9.3	16.4	+ 18.8	-1345.	774.	1552.	-6.1
15	0.0	-0.00	6.4	10.8	+ 12.5	-924.	547.	1074.	-7.4
16	10.0	-12.34	3.3	4.6	+ 5.7	-447.	300.	538.	-8.4
17	20.0	-24.69	-.3	-1.0	− 1.0	-8.	31.	32.	-8.5
18	30.0	-37.03	-3.7	-6.5	− 7.4	419.	-222.	474.	-7.9
19	40.0	-49.38	-6.3	-11.9	− 13.5	834.	-441.	943.	-6.7
20	50.0	-61.72	-8.4	-16.1	− 18.1	1161.	-606.	1310.	-5.4
21	60.0	-74.07	-10.0	-19.3	− 21.7	1378.	-724.	1557.	-3.7
22	70.0	-86.41	-11.3	-20.7	− 23.6	1501.	-812.	1707.	-2.1
23	80.0	-98.76	-11.7	-20.8	− 23.8	1507.	-840.	1725.	-.9
24	90.0	-111.10	-11.3	-19.8	− 22.8	1440.	-817.	1655.	.4
25	100.0	-123.45	-10.1	-18.0	− 20.7	1302.	-730.	1493.	1.6
26	110.0	-135.79	-8.4	-14.8	− 17.1	1068.	-611.	1230.	2.8
27	120.0	-148.14	-6.3	-11.3	− 13.0	806.	-453.	925.	4.3
28	130.0	-160.48	-3.8	-7.2	− 8.1	506.	-275.	576.	5.4
29	140.0	-172.83	-2.0	-2.8	− 3.5	205.	-143.	250.	6.5

```
**** L O A D   S U M M A R Y   R E P O R T ****

WAVE NUMBER =   1                                WAVE DIRECTION = 60.000

              X SHEAR FORCE =          15.2564 KIPS
              Y SHEAR FORCE =          27.9453 KIPS
      RESULTANT SHEAR FORCE =          31.8386 KIPS

           X MUDLINE MOMENT =       -2137.9969 FT-KIPS
           Y MUDLINE MOMENT =        1160.1065 FT-KIPS
   RESULTANT MUDLINE MOMENT =        2432.4633 FT-KIPS

           Z VERTICAL FORCE =          -.6558 KIPS
```

6000 REMUTE BATCH

UNITED COMPUTING 67, APEX/SL 8,6,0

10.45.31. 07/20/76.

PUYONEW

12 FT WAVE HEIGHT

8.3 SEC WAVE PERIOD

1.4 FPS SURFACE CURRENT

(0.8 knot)

```
*******************************************************
*                                                     *
*                     SEALOAD-2                       *
*                                                     *
*      DEVELOPED BY SYNERCOM TECHNOLOGY, INC.         *
*               HOUSTON, TEXAS                        *
*             RELEASE 2  MOD 12                       *
*                JULY 1976                            *
*                                                     *
*******************************************************

                  1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

    1  COEF     12.   0.74       1.34
    2           24.   0.74       1.34
    3           36.   0.74       1.34
    4           48.   0.74       1.34
    5           72.   0.74       1.34
    6  END   144.0    0.74       1.34
    7  VCUR              1.0     0.1
    8                   10.7     0.2
    9                   21.4     0.4
   10                   32.2     0.4
   11                   42.9     0.5
   12                   53.6     0.5
   13                   64.3     0.6
   14                   75.0     0.7
   15                   85.8     0.7
   16                   96.5     0.8
   17  END             107.2     0.8
   18                          12 FT WAVE HEIGHT
   19                             C. CHERN
   20                                JULY, 1976
   21                                27-771-01
   22  STRAN    1 60018018010011                   DF  1    00  1  120  10720  83  3 11
   23  END
```

**** C O E F F I C I E N T   T A B L E   R E P O R T ****

DIAMETER IN	NORMAL DRAG COEF	TANG DRAG COEF	MASS COEF
12.000	.7400	-0.0000	1.3400
24.000	.7400	-0.0000	1.3400
36.000	.7400	-0.0000	1.3400
48.000	.7400	-0.0000	1.3400
72.000	.7400	-0.0000	1.3400
144.000	.7400	-0.0000	1.3400

12 FT WAVE HEIGHT

C. CHERN

JULY, 1976

27-771-01

INPUT UNITS
....ENGLISH
OUTPUT UNITS
....ENGLISH

```
[illegible] = [illegible]
[illegible] = [illegible]
A11 = .26772255
A13 = -.21355279
A15 = -.29567579
A22 = .25517899E-02
A24 = .23315511E-01
A33 = -.99479194E-04
A35 = .11455314E-02
A44 = .18433703E-05
A55 = .68506017E-07
B22 = .58456367
B24 = .08542132
B33 = .47569461
B35 = 1.0064257
B44 = .44072134
B55 = .49055770
C1 = 1.0901464
C2 = 1.7361266
C3 = -.19621416E-01
C4 = .78610420E-02
```

```
D1 TO D5    1.2850779    .27870122E-02    -.13837773E-04    .43219583E-07    .21902454E-09

E1 TO E5    5.9644629    .38706934        .35122707E-01     .35675547E-02    .41438650E-03
```

WAVE PROFILE TABLE

THETA=	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.
X(FT)=	0.0	9.5	19.1	28.6	38.2	47.7	57.3	66.8	76.3	85.9	95.4	105.0	114.5	124.1	133.6	143.1	152.7	162.2	171.8
DEPTH(FT)=	113.6	113.5	113.1	112.6	111.8	110.9	110.0	108.9	107.9	106.8	105.8	104.9	104.1	103.3	102.7	102.2	101.9	101.7	101.6

*** * * * W A V E   P O S I T I O N   S U M M A R Y   R E P O R T * * * ***

LOAD CONDITION 1 WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG.-WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
1	-180.0	188.63	-5.3	-8.2	−9.8	565.	-362.	671.	9.6
2	-170.0	178.15	-1.9	-1.8	− 2.6	158.	-142.	212.	10.9
3	-160.0	167.67	2.0	4.7	+ 5.1	-265.	110.	286.	10.8
4	-150.0	157.19	5.9	12.0	+ 13.4	-724.	371.	814.	10.9
5	-140.0	146.71	9.1	19.3	+ 21.4	-1191.	588.	1328.	10.9
6	-130.0	136.23	12.6	25.9	+ 28.8	-1638.	830.	1837.	10.6
7	-120.0	125.75	16.4	31.8	+ 35.8	-2062.	1083.	2329.	10.4
8	-110.0	115.27	20.0	37.2	+ 42.2	-2447.	1316.	2778.	9.9
9	-100.0	104.79	23.2	42.7	+ 48.6	-2833.	1527.	3219.	9.1
10	-90.0	94.31	25.4	46.8	+ 53.3	-3139.	1702.	3571.	7.6
11	-80.0	83.84	27.1	50.6	+ 57.4	-3434.	1843.	3897.	5.7
12	-70.0	73.36	26.5	52.8	+ 60.0	-3667.	1979.	4167.	4.0
13	-60.0	62.88	29.7	54.3	+ 61.8	-3872.	2108.	4409.	1.8
14	-50.0	52.40	29.9	54.7	+ 62.4	-3996.	2162.	4544.	-.6
15	-40.0	41.92	29.7	53.2	+ 60.9	-3976.	2186.	4537.	-2.7
16	-30.0	31.44	28.3	49.8	+ 57.3	-3819.	2125.	4370.	-5.3
17	-20.0	20.96	25.7	44.5	+ 51.4	-3516.	1969.	4030.	-8.4
18	-10.0	10.48	21.9	37.3	+ 43.2	-3044.	1721.	3497.	-11.0
19	0.0	-0.00	17.1	29.2	+ 33.9	-2457.	1399.	2827.	-13.2
20	10.0	-10.48	11.7	19.1	+ 22.4	-1717.	1020.	1997.	-15.2
21	20.0	-20.96	5.7	9.0	+ 10.7	-947.	571.	1106.	-16.7
22	30.0	-31.44	-.2	-1.7	− 1.7	-142.	116.	183.	-16.5
23	40.0	-41.92	-5.6	-12.4	− 13.6	654.	-303.	721.	-15.3
24	50.0	-52.40	-10.6	-21.7	− 24.2	1338.	-686.	1504.	-14.0
25	60.0	-62.88	-14.8	-29.0	− 32.6	1674.	-980.	2115.	-12.4
26	70.0	-73.36	-18.2	-34.2	− 38.7	2247.	-1212.	2554.	-10.4
27	80.0	-83.84	-20.7	-37.5	− 42.8	2453.	-1365.	2807.	-8.0
28	90.0	-94.31	-21.7	-39.0	− 44.7	2553.	-1419.	2921.	-5.3
29	100.0	-104.79	-21.5	-39.0	− 44.5	2517.	-1394.	2877.	-2.4
30	110.0	-115.27	-20.6	-37.2	− 42.5	2390.	-1321.	2731.	-.3
31	120.0	-125.75	-19.2	-33.5	− 38.6	2157.	-1225.	2481.	2.2
32	130.0	-136.23	-17.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

33	140	-146.71	-13.6	-22.5	-26.3	500.	-874.	1736.	6.3

*** * * * W A V E   P O S I T I O N   S U M M A R Y   R E P O R T * * * ***

LOAD CONDITION 1

WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG.WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
34	150.0	-157.19	-10.3	-16.7	−19.6	1122.	-666.	1305.	7.9
35	160.0	-167.67	-6.4	-10.7	−12.5	727.	-429.	844.	9.2
36	170.0	-176.15	-3.0	-4.3	−5.3	303.	-215.	372.	10.5
37	160.0	-186.63	.7	2.2	+2.3	-110.	24.	113.	11.1

```
**** L O A D   S U M M A R Y   R E P O R T ****

WAVE NUMBER =   1                              WAVE DIRECTION = 60.000

            X SHEAR FORCE =            29.9176 KIPS
            Y SHEAR FORCE =            54.7110 KIPS
    RESULTANT SHEAR FORCE =            62.3567 KIPS

         X MUDLINE MOMENT =         -3996.0753 FT-KIPS
         Y MUDLINE MOMENT =          2162.3815 FT-KIPS
 RESULTANT MUDLINE MOMENT =          4543.6232 FT-KIPS

         Z VERTICAL FORCE =             -.5979 KIPS
```

6000 REMOTE BATCH

UNITED COMPUTING 67. APEX/SL 8.6.0

10.18.46. 07/20/76.

PUYOMUD

17 FT WAVE HEIGHT

8.8 SEC WAVE PERIOD

1.5 FPS SURFACE CURRENT

(0.9 knot)

```
*****************************************************
*                                                   *
*                   SEALOAD-2                       *
*                                                   *
*      DEVELOPED BY SYNERCOM TECHNOLOGY, INC.       *
*               HOUSTON, TEXAS                      *
*              RELEASE 2  MOD 12                    *
*                 JULY 1974                         *
*                                                   *
*****************************************************

                    1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

    1  COEF    12.    0.74          1.34
    2          24.    0.74          1.34
    3          36.    0.74          1.34
    4          48.    0.74          1.34
    5          72.    0.74          1.34
    6  END    144.0   0.74          1.34
    7  VCUR                 1.0     0.1
    8                      10.8     0.3
    9                      21.5     0.4
   10                      32.3     0.4
   11                      43.1     0.5
   12                      53.9     0.6
   13                      64.6     0.7
   14                      75.4     0.7
   15                      86.2     0.8
   16                      96.9     0.8
   17  END                107.7     0.9
   18                             17 FT WAVE HEIGHT
   19                               C. CHERN
   20                                     JULY, 1976
   21                                     27-771-01
   22  STRAN    1 60021021010011                  DF  1    00  1  170  10770  88  3 11
   23  END
```

**** C O E F F I C I E N T   T A B L E   R E P O R T ****

DIAMETER IN	NORMAL DRAG COEF	TANG DRAG COEF	MASS COEF
12.000	.7400	-0.0000	1.3400
24.000	.7400	-0.0000	1.3400
36.000	.7400	-0.0000	1.3400
48.000	.7400	-0.0000	1.3400
72.000	.7400	-0.0000	1.3400
144.000	.7400	-0.0000	1.3400

17 FT WAVE HEIGHT

C. CHERN

JULY, 1976

27-771-01

INPUT UNITS
....ENGLISH
OUTPUT UNITS
....ENGLISH

**** S T O K E S   W A V E   C O N S T A N T S   R E P O R T ****

```
       WAVE HEIGHT =    17.000    FT
 MEAN WATER DEPTH =   107.700    FT
       WAVE PERIOD =     8.800    SEC
       WAVE LENGTH =   382.529    FT
    WAVE CELERITY =    43.468    FT/SEC
               D/L =   .281547
            LAMBDA =   .13809

BETA =      .01643
 CO2 =   30.352027
 A11 =    .35121282
 A13 =  -.28306398
 A15 =  -.41120717
 A22 =    .57057497E-02
 A24 =    .36398757E-01
 A33 =  -.24129401E-03
 A35 =    .28242993E-02
 A44 =    .16414238E-05
 A55 =    .57917462E-06
 B22 =    .62799385
 B24 =    .94398600
 B33 =    .53167828
 B35 =   1.8375951
 B44 =    .53600378
 B55 =    .59427832
  C1 =   1.1404677
  C2 =   2.0292163
  C3 =  -.29095318E-01
  C4 =    .13689735E-01

D1 TO D5    2.0748947    .10609975E-01   -.64366337E-04    .10378622E-06    .63213708E-08

E1 TO E5    8.4073231    .74999774        .90859931E-01    .11867080E-01    .18169318E-02
```

WAVE PROFILE TABLE

THETA=	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.
X(FT)=	0.0	10.6	21.3	31.9	42.5	53.1	63.8	74.4	85.0	95.6	106.3	116.9	127.5	138.1	148.8	159.4	170.0	180.6	191.3
DEPTH(FT)=	117.0	116.8	116.2	115.3	114.2	112.9	111.4	109.9	108.4	107.0	105.6	104.3	103.2	102.2	101.4	100.8	100.3	100.1	100.0

**** W A V E   P O S I T I O N   S U M M A R Y   R E P O R T ****

LOAD CONDITION 1 — WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG. WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
1	-210.0	197.63	-14.9	-24.5	− 28.7	1527.	-892.	1769.	11.0
2	-200.0	188.22	-10.6	-16.5	− 19.6	1065.	-642.	1244.	12.8
3	-190.0	178.81	-5.9	-8.4	− 10.3	586.	-379.	699.	14.4
4	-180.0	169.40	-1.1	.1	− 1.1	85.	-106.	136.	15.6
5	-170.0	159.99	4.0	9.2	+ 10.0	-465.	197.	505.	16.2
6	-160.0	150.58	8.9	18.3	+ 20.4	-1010.	499.	1126.	16.5
7	-150.0	141.17	13.6	27.1	+ 30.3	-1562.	804.	1757.	17.2
8	-140.0	131.75	18.8	35.6	+ 40.3	-2125.	1122.	2403.	17.0
9	-130.0	122.34	24.2	44.4	+ 50.6	-2699.	1450.	3064.	17.0
10	-120.0	112.93	28.4	52.3	+ 59.5	-3238.	1737.	3675.	16.3
11	-110.0	103.52	32.5	59.5	+ 67.8	-3751.	2021.	4261.	15.1
12	-100.0	94.11	36.0	65.5	+ 74.8	-4222.	2286.	4801.	13.7
13	-90.0	84.70	39.0	71.1	+ 81.1	-4693.	2542.	5337.	11.8
14	-80.0	75.29	41.8	76.6	+ 87.3	-5197.	2798.	5902.	10.1
15	-70.0	65.88	44.7	81.2	+ 92.7	-5662.	3063.	6437.	7.9
16	-60.0	56.47	46.5	84.2	+ 96.2	-6019.	3278.	6853.	5.0
17	-50.0	47.06	47.0	85.8	+ 97.9	-6283.	3415.	7151.	1.5
18	-40.0	37.64	47.3	85.3	+ 97.5	-6396.	3504.	7293.	-2.7
19	-30.0	28.23	46.0	82.6	+ 94.5	-6330.	3483.	7225.	-6.7
20	-20.0	18.82	43.6	76.9	+ 88.4	-6038.	3364.	6911.	-11.4
21	-10.0	9.41	39.4	68.5	+ 79.0	-5508.	3096.	6318.	-15.6
22	0.0	-0.00	33.3	57.3	+ 66.2	-4736.	2679.	5441.	-19.5
23	10.0	-9.41	26.0	43.6	+ 50.8	-3759.	2160.	4336.	-22.6
24	20.0	-18.82	17.6	28.4	+ 33.4	-2630.	1549.	3053.	-24.8
25	30.0	-28.23	8.4	12.3	+ 14.9	-1429.	869.	1672.	-26.5
26	40.0	-37.64	-.5	-3.6	− 3.6	-231.	190.	299.	-26.5
27	50.0	-47.06	-8.7	-18.2	− 20.2	876.	-417.	970.	-25.5
28	60.0	-56.47	-16.1	-31.7	− 35.6	1847.	-958.	2081.	-22.7
29	70.0	-65.88	-22.6	-42.0	− 47.7	2585.	-1400.	2940.	-20.0
30	80.0	-75.29	-27.3	-49.3	− 56.4	3077.	-1707.	3519.	-17.2
31	90.0	-84.70	-29.9	-54.1	− 61.8	3381.	-1885.	3871.	-14.1
32	100.0	-94.11	-30.8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

33	110.[illegible]	-103.52	-30.6	-56.4	-64.3	[illegible]	-1913.	3977.	-6.8

*** * * * W A V E   P O S I T I O N   S U M M A R Y   R E P O R T * * * ***

LOAD CONDITION 1 — WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG.WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
34	120.0	-112.93	-30.1	-54.1	-61.9	3328.	-1840.	3803.	-3.3
35	130.0	-122.34	-28.3	-50.5	-57.9	3087.	-1717.	3532.	.0
36	140.0	-131.75	-26.0	-45.8	-52.7	2784.	-1563.	3193.	2.8
37	150.0	-141.17	-23.2	-40.3	-46.5	2441.	-1385.	2806.	5.9
38	160.0	-150.58	-19.7	-33.9	-39.2	2063.	-1177.	2375.	8.1
39	170.0	-159.99	-15.9	-26.4	-30.9	1634.	-956.	1893.	10.5
40	180.0	-169.40	-11.8	-18.5	-21.9	1184.	-704.	1378.	12.4
41	190.0	-178.81	-7.2	-10.5	-12.8	725.	-456.	856.	14.0
42	200.0	-188.22	-2.3	-2.2	-3.2	223.	-173.	282.	15.4
43	210.0	-197.63	2.5	6.6	+7.1	-303.	109.	322.	16.1

```
**** L O A D   S U M M A R Y   R E P O R T ****

WAVE NUMBER =   1                              WAVE DIRECTION = 60.000

                X SHEAR FORCE =          47.2562 KIPS
                Y SHEAR FORCE =          85.3207 KIPS
        RESULTANT SHEAR FORCE =          97.5334 KIPS

              X MUDLINE MOMENT =      -6396.0183 FT-KIPS
              Y MUDLINE MOMENT =       3503.6516 FT-KIPS
      RESULTANT MUDLINE MOMENT =       7292.7789 FT-KIPS

              Z VERTICAL FORCE =         -2.6511 KIPS
```

6 0 0 0 R E M O T E B A T C H

UNITED COMPUTING 67, APEX/SL 8.6.0

09.53.16. 07/20/76.

```
PPPPPPPPPPP  UU      UU  YY        YY    00000000    MM        MM  KK        KK   SSSSSSSSSS
PPPPPPPPPPPP UU      UU  YY        YY   00      00   MMM      MMM  KK       KK   SSSSSSSSSSSS
PP        PP UU      UU  YY        YY  00        00  MMMM    MMMM  KK      KK    SS        S
PP        PP UU      UU  YY        YY  00        00  MM MM  MM MM  KK     KK     SS
PP        PP UU      UU  YY        YY  00        00  MM  MMMM  MM  KK    KK      SS
PP        PP UU      UU  YY        YY  00        00  MM   MM   MM  KK   KK       SS
PPPPPPPPPPPP UU      UU  YYY      YYY  00        00  MM        MM  KK  KK        SS
PPPPPPPPPPP  UU      UU   YYY    YYY   00        00  MM        MM  KK KK         SSSSSSSSSSS
PP           UU      UU    YYY  YYY    00        00  MM        MM  KKKKK          SSSSSSSSSSS
PP           UU      UU      YYYY      00        00  MM        MM  KKKKKK                  SS
PP           UU      UU       YY       00        00  MM        MM  KK   KK                 SS
PP           UU      UU       YY       00        00  MM        MM  KK    KK                SS
PP           UU      UU       YY       00        00  MM        MM  KK     KK               SS
PP           UU      UU       YY       00        00  MM        MM  KK      KK    S         SS
PP           UUUUUUUUUUUU     YY        00      00   MM        MM  KK       KK   SSSSSSSSSSSS
PP            UUUUUUUUUU      YY         00000000    MM        MM  KK        KK   SSSSSSSSSS
```

22 FT WAVE HEIGHT
9.4 SEC WAVE PERIOD
1.7 FPS SURFACE CURRENT
(1.0 Knot)

```
*************************************************
*                                               *
*                  SEALOAD-2                    *
*                                               *
*   DEVELOPED BY SYNERCOM TECHNOLOGY, INC.      *
*              HOUSTON, TEXAS                   *
*            RELEASE 2  MOD 12                  *
*               JULY 1976                       *
*                                               *
*************************************************

                 1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

     1   COEF    12.    0.74        1.34
     2           24.    0.74        1.34
     3           36.    0.74        1.34
     4           48.    0.74        1.34
     5           72.    0.74        1.34
     6   END    144.0   0.74        1.34
     7   VCUR               1.0     0.1
     8                     10.8     0.3
     9                     21.6     0.4
    10                     32.5     0.5
    11                     43.3     0.5
    12                     54.1     0.6
    13                     64.9     0.7
    14                     75.7     0.8
    15                     86.6     0.8
    16                     97.4     0.9
    17   END              108.2     1.0
    18                            22 FT WAVE HEIGHT
    19                              C. CHERN
    20                                 JULY, 1976
    21                                 27-771-01
    22   STRAN    1 60024024010011              DF  1    00  1  220  10820  94  3 11
    23   END
```

**** C U E F F I C I E N T   T A B L E   R E P O R T ****

DIAMETER IN	NORMAL DRAG CUEF	TANG DRAG CUEF	MASS CUEF
12.000	.7400	-0.0000	1.3400
24.000	.7400	-0.0000	1.3400
36.000	.7400	-0.0000	1.3400
48.000	.7400	-0.0000	1.3400
72.000	.7400	-0.0000	1.3400
144.000	.7400	-0.0000	1.3400

22 FT WAVE HEIGHT

C. CHERN

JULY, 1976

27-771-01

```
INPUT UNITS
        ....ENGLISH
OUTPUT UNITS
        ....ENGLISH
```

**** STOKES WAVE CONSTANTS REPORT ****

WAVE HEIGHT =	22.000	FT
MEAN WATER DEPTH =	108.200	FT
WAVE PERIOD =	9.400	SEC
WAVE LENGTH =	429.261	FT
WAVE CELERITY =	45.664	FT/SEC
D/L =	.252061	
LAMBDA =	.15825	

BETA =	.01464
CO2 =	29.570176
A11 =	.42845181
A13 =	-.30675651
A15 =	-.59761944
A22 =	.12636861E-01
A24 =	.56526999E-01
A33 =	-.52946638E-03
A35 =	.73544205E-02
A44 =	-.14584060E-04
A55 =	.33880986E-05
B22 =	.69374319
B24 =	1.0586848
B33 =	.62203764
B35 =	2.2094359
B44 =	.68354760
B55 =	.77891153
C1 =	1.2214815
C2 =	2.5352340
C3 =	-.42183910E-01
C4 =	.24483811E-01

D1 TO D5	3.0234002	.32138905E-01	-.18742808E-03	-.16705619E-05	.76769267E-07
E1 TO E5	10.811328	1.2322607	.18339079	.28429077E-01	.52809982E-02

WAVE PROFILE TABLE

THETA=	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.
X(FT)=	0.0	11.9	23.8	35.8	47.7	59.6	71.5	83.5	95.4	107.3	119.2	131.2	143.1	155.0	166.9	178.9	190.8	202.7	214.6
DEPTH(FT)=	120.5	120.2	119.4	118.2	116.6	114.7	112.8	110.8	108.9	107.0	105.3	103.7	102.3	101.2	100.2	99.4	98.9	98.6	98.5

**** WAVE POSITION SUMMARY REPORT ****

LOAD CONDITION 1 WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG.WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
1	-240.0	201.28	-23.8	-39.9	- 46.5	2236.	-1327.	2600.	9.4
2	-230.0	192.89	-19.8	-32.5	-38.0	1835.	-1112.	2146.	11.7
3	-220.0	184.50	-15.6	-24.2	-28.8	1401.	-872.	1650.	13.4
4	-210.0	176.12	-10.6	-15.4	- 18.7	935.	-611.	1117.	15.9
5	-200.0	167.73	-4.8	-5.9	- 7.6	446.	-305.	541.	18.4
6	-190.0	159.34	1.0	3.9	+ 4.0	-93.	4.	93.	20.3
7	-180.0	150.96	6.9	14.8	+ 16.4	-707.	337.	783.	21.3
8	-170.0	142.57	12.5	25.6	+ 28.5	-1345.	674.	1504.	22.2
9	-160.0	134.18	18.9	36.1	+ 40.8	-1987.	1039.	2242.	22.7
10	-150.0	125.80	25.0	46.7	+ 52.9	-2645.	1402.	2992.	23.2
11	-140.0	117.41	31.0	57.3	+ 65.2	-3326.	1784.	3775.	23.1
12	-130.0	109.02	36.3	66.9	+ 76.1	-3976.	2125.	4508.	22.2
13	-120.0	100.64	41.3	75.4	+ 86.0	-4600.	2470.	5221.	21.6
14	-110.0	92.25	45.9	83.4	+ 95.2	-5217.	2819.	5930.	20.3
15	-100.0	83.87	50.3	91.5	+ 104.4	-5892.	3182.	6696.	19.2
16	-90.0	75.48	54.5	99.8	+ 113.7	-6637.	3552.	7528.	18.0
17	-80.0	67.09	59.1	107.4	+ 122.6	-7347.	3968.	8350.	16.0
18	-70.0	58.71	63.2	114.3	+ 130.6	-8032.	4358.	9138.	12.9
19	-60.0	50.32	66.6	120.2	+ 137.4	-8669.	4714.	9868.	9.0
20	-50.0	41.93	69.2	126.0	+ 143.7	-9371.	5026.	10634.	4.6
21	-40.0	33.55	71.8	129.7	+ 148.3	-9949.	5386.	11313.	.3
22	-30.0	25.16	72.6	129.1	+ 148.1	-10135.	5613.	11586.	-5.9
23	-20.0	16.77	69.7	123.7	+ 142.0	-9890.	5500.	11317.	-13.1
24	-10.0	8.39	65.0	114.5	+ 131.7	-9325.	5218.	10685.	-20.3
25	0.0	-0.00	58.2	101.0	+ 116.6	-8422.	4743.	9665.	-26.9
26	10.0	-8.39	49.2	84.6	+ 97.8	-7217.	4096.	8299.	-32.6
27	20.0	-16.77	38.5	64.9	+ 75.5	-5767.	3307.	6648.	-37.3
28	30.0	-25.16	26.8	43.4	+ 51.0	-4140.	2431.	4801.	-41.1
29	40.0	-33.55	14.2	20.5	+ 24.9	-2373.	1486.	2800.	-41.9
30	50.0	-41.93	1.0	-2.5	- 2.7	-578.	470.	749.	-39.4
31	60.0	-50.32	-10.9	-22.7	- 25.2	959.	-460.	1064.	-35.6
32	70.0	-58.71	-20.8	-39.3	- 44.5	2181.	-1166.	2473.	-32.5

33	80.0	-67.09	-28.6	-52.8	-60.1	[illegible]	-1699.	3551.	-28.9

*** * * * WAVE POSITION SUMMARY REPORT * * * ***

LOAD CONDITION 1 — WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG. WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
34	90.0	-75.48	-34.5	-62.2	-71.1	3742.	-2081.	4282.	-24.7
35	100.0	-83.67	-38.3	-68.4	-78.4	4126.	-2304.	4726.	-20.5
36	110.0	-92.25	-40.1	-71.5	-82.0	4289.	-2391.	4911.	-16.5
37	120.0	-100.64	-40.4	-72.0	-82.5	4285.	-2381.	4902.	-12.5
38	130.0	-109.02	-39.9	-70.4	-80.9	4152.	-2319.	4755.	-8.3
39	140.0	-117.41	-38.4	-67.4	-77.6	3939.	-2200.	4512.	-4.7
40	150.0	-125.80	-35.8	-63.2	-72.6	3660.	-2030.	4185.	-.8
41	160.0	-134.18	-33.0	-58.4	-67.1	3359.	-1861.	3840.	2.2
42	170.0	-142.57	-30.4	-53.2	-61.3	3046.	-1703.	3490.	5.2
43	180.0	-150.96	-27.4	-46.6	-54.0	2633.	-1523.	3042.	8.1
44	190.0	-159.34	-23.6	-39.4	-45.9	2204.	-1314.	2566.	9.5
45	200.0	-167.73	-19.5	-32.0	-37.5	1809.	-1093.	2113.	11.8
46	210.0	-176.12	-15.1	-23.3	-27.8	1556.	-850.	1600.	13.6
47	220.0	-184.50	-10.2	-14.7	-17.9	895.	-592.	1073.	15.7
48	230.0	-192.89	-4.4	-5.0	-6.7	393.	-279.	482.	18.1
49	240.0	-201.28	1.2	4.5	+4.7	-133.	25.	136.	20.3

**** L O A D   S U M M A R Y   R E P O R T ****

WAVE NUMBER = 1 WAVE DIRECTION = 60.000

X SHEAR FORCE =	72.5674 KIPS
Y SHEAR FORCE =	129.0833 KIPS
RESULTANT SHEAR FORCE =	148.0829 KIPS
X MUDLINE MOMENT =	-10134.8196 FT-KIPS
Y MUDLINE MOMENT =	5613.3446 FT-KIPS
RESULTANT MUDLINE MOMENT =	11585.5170 FT-KIPS
Z VERTICAL FORCE =	-5.8546 KIPS

6 0 0 0 R E M O T E B A T C H

UNITED COMPUTING 67. APEX/SL B.6.0

09.39.26.   07/20/76.

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PPPPPPPPPPP  UU        UU  YY         YY    00000000     MM          MM  FFFFFFFFFFFF  YY         YY
PPPPPPPPPPPP UU        UU  YY         YY   00      00    MMM        MMM  FFFFFFFFFFFF  YY         YY
PP        PP UU        UU  YY         YY  00        00   MMMM      MMMM  FF            YY         YY
PP        PP UU        UU  YY         YY  00        00   MM MM    MM MM  FF            YY         YY
PP        PP UU        UU  YY         YY  00        00   MM  MMMM    MM  FF            YY         YY
PP        PP UU        UU  YY         YY  00        00   MM   MM     MM  FF            YY         YY
PPPPPPPPPPPP UU        UU  YYY       YYY  00        00   MM          MM  FF            YYY       YYY
PPPPPPPPPPP  UU        UU   YYY     YYY   00        00   MM          MM  FFFFFFFF       YYY     YYY
PP           UU        UU    YYY   YYY    00        00   MM          MM  FFFFFFFF        YYY   YYY
PP           UU        UU      YYYY       00        00   MM          MM  FF                YYYY
PP           UU        UU       YY        00        00   MM          MM  FF                 YY
PP           UU        UU       YY        00        00   MM          MM  FF                 YY
PP           UU        UU       YY        00        00   MM          MM  FF                 YY
PP           UU        UU       YY        00        00   MM          MM  FF                 YY
PP           UUUUUUUUUUUU       YY         00      00    MM          MM  FF                 YY
PP            UUUUUUUUUU        YY          00000000     MM          MM  FF                 YY
```

27 FT WAVE HEIGHT

9.8 SEC WAVE PERIOD

2.0 FPS SURFACE CURRENT

(1.2 knot)

```
                 ******************************************************
                 *                                                    *
                 *                    SEALOAD-2                       *
                 *                                                    *
                 *      DEVELOPED BY SYNERCOM TECHNOLOGY, INC.        *         PAGE   1
                 *                 HOUSTON, TEXAS                     *
                 *               RELEASE 2  MOD 12                    *
                 *                   JULY 1976                        *
                 *                                                    *
                 ******************************************************

                           1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

      1  COEF    12.    0.74         1.34
      2          24.    0.74         1.34
      3          36.    0.74         1.34
      4          48.    0.74         1.34
      5          72.    0.74         1.34
      6  END    144.0   0.74         1.34
      7  VCUR              1.0       0.2
      8                   10.9       0.4
      9                   21.7       0.5
     10                   32.6       0.6
     11                   43.5       0.7
     12                   54.4       0.8
     13                   65.2       0.8
     14                   76.1       0.9
     15                   87.0       1.0
     16                   97.8       1.1
     17  END             108.7       1.2
     18                            27 FT WAVE HEIGHT
     19                              C. CHERN
     20                                   JULY, 1976
     21                                   27-771-01
     22  STRAN    1 60026026010011                     DF  1    00  1  270  10870  98  3 11
     23  END
```

**** C O E F F I C I E N T   T A B L E   R E P O R T ****

DIAMETER IN	NORMAL DRAG COEF	TANG DRAG COEF	MASS COEF
12.000	.7400	-0.0000	1.3400
24.000	.7400	-0.0000	1.3400
36.000	.7400	-0.0000	1.3400
48.000	.7400	-0.0000	1.3400
72.000	.7400	-0.0000	1.3400
144.000	.7400	-0.0000	1.3400

27 FT WAVE HEIGHT

C. CHERN

JULY, 1976

27-771-01

INPUT UNITS
....ENGLISH

OUTPUT UNITS
....ENGLISH

**** S T O K E S   W A V E   C O N S T A N T S   R E P O R T ****

```
     WAVE HEIGHT =    27.000    FT
MEAN WATER DEPTH =   108.700    FT
     WAVE PERIOD =     9.800    SEC
     WAVE LENGTH =   462.633    FT
   WAVE CELERITY =    47.205    FT/SEC
             D/L =    .234960
          LAMBDA =    .17870

    BETA =      .01358
     C02 =    28.977818
     A11 =     .48213496
     A13 =    -.47497554
     A15 =    -.76665023
     A22 =     .20263094E-01
     A24 =     .72716169E-01
     A33 =    -.77664346E-03
     A35 =     .13404760E-01
     A44 =    -.59055168E-04
     A55 =     .83715605E-05
     B22 =     .74062561
     B24 =    1.1492513
     B33 =     .70259918
     B35 =    2.5377483
     B44 =     .75500577
     B55 =     .96084042
      C1 =    1.2932434
      C2 =    3.0198763
      C3 =    -.52347009E-01
      C4 =     .35072100E-01

    D1 TO D5    3.9325693     .68092655E-01   -.28170155E-03   -.11371740E-06   .36008582E-06

    E1 TO E5   13.157834     1.8465552        .32927358        .58798520E-01    .12892803E-01
```

WAVE PROFILE TABLE

THETA=	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.
X(FT)=	0.0	12.9	25.7	38.6	51.4	64.3	77.1	90.0	102.8	115.7	128.5	141.4	154.2	167.1	179.9	192.8	205.6	218.5	231.3
DEPTH(FT)=	124.1	123.7	122.7	121.0	118.9	116.5	114.0	111.5	109.1	106.9	104.9	103.1	101.5	100.2	99.1	98.2	97.6	97.2	97.1

*** * * * WAVE POSITION SUMMARY REPORT * * * ***

LOAD CONDITION 1 WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG.WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
1	-260.0	202.32	-31.3	-52.4	− 61.1	2797.	-1660.	3253.	9.2
2	-250.0	194.54	-27.2	-45.2	− 52.8	2427.	-1446.	2825.	11.7
3	-240.0	186.76	-22.9	-37.3	− 43.8	2017.	-1218.	2356.	14.0
4	-230.0	178.98	-17.9	-28.4	− 33.5	1572.	-964.	1844.	16.2
5	-220.0	171.19	-12.6	-18.4	− 22.3	1063.	-693.	1269.	18.2
6	-210.0	163.41	-6.3	-7.3	− 9.6	505.	-373.	628.	19.9
7	-200.0	155.63	-.0	4.0	+ 4.0	-80.	-43.	91.	22.5
8	-190.0	147.85	7.0	15.9	+ 17.3	-697.	320.	767.	25.0
9	-180.0	140.07	14.2	28.2	+ 31.6	-1400.	708.	1569.	26.9
10	-170.0	132.29	21.3	40.4	+ 45.6	-2119.	1119.	2396.	28.1
11	-160.0	124.50	28.4	53.4	+ 60.5	-2894.	1521.	3269.	28.9
12	-150.0	116.72	35.3	65.7	+ 74.6	-3674.	1955.	4162.	29.6
13	-140.0	108.94	41.9	77.2	+ 87.9	-4450.	2375.	5044.	29.8
14	-130.0	101.16	47.9	87.9	+100.1	-5217.	2785.	5914.	29.7
15	-120.0	93.38	53.8	98.4	+112.1	-6007.	3224.	6817.	28.7
16	-110.0	85.60	59.9	109.3	+124.7	-6895.	3713.	7631.	28.3
17	-100.0	77.82	66.2	121.4	+138.3	-7932.	4232.	8990.	28.0
18	-90.0	70.03	73.0	133.4	+152.0	-8979.	4822.	10192.	26.3
19	-80.0	62.25	79.9	145.7	+166.1	-10094.	5441.	11468.	23.5
20	-70.0	54.47	86.2	156.4	+180.4	-11332.	6025.	12834.	20.7
21	-60.0	46.69	93.6	171.7	+195.6	-12697.	6773.	14390.	18.5
22	-50.0	38.91	100.1	181.3	+207.1	-13750.	7475.	15651.	13.6
23	-40.0	31.13	104.0	186.7	+213.7	-14437.	7931.	16472.	5.2
24	-30.0	23.34	104.9	187.4	+214.8	-14743.	8137.	16840.	-4.0
25	-20.0	15.56	103.1	183.1	+210.2	-14638.	8113.	16736.	-13.9
26	-10.0	7.78	98.2	173.3	+199.2	-14058.	7832.	16092.	-23.3
27	0.0	-0.00	90.3	158.2	+182.2	-13012.	7301.	14920.	-32.1
28	10.0	-7.78	79.4	137.8	+159.1	-11525.	6510.	13236.	-39.8
29	20.0	-15.56	66.3	113.4	+131.4	-9681.	5519.	11143.	-46.7
30	30.0	-23.34	51.2	85.8	+ 99.9	-7596.	4363.	8760.	-52.5
31	40.0	-31.13	35.0	57.1	+ 66.9	-5382.	3140.	6231.	-56.7

32	30.0	-3?.?1	10.0	27.3	33.2	-3130.	1898.	3561.	-58.9
33	60	-46.09	2.5	-1.0	2.7	[illegible]	708.	1168.	-56.0

*** * * * W A V E   P O S I T I O N   S U M M A R Y   R E P O R T * * * ***

LOAD CONDITION 1 WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG.WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
34	70.0	-54.47	-12.5	-27.3	-30.1	1091.	-462.	1185.	-48.9
35	80.0	-62.25	-25.3	-48.0	-54.2	2599.	-1402.	2953.	-42.5
36	90.0	-70.03	-34.6	-63.9	-72.7	3711.	-2037.	4233.	-37.2
37	100.0	-77.82	-41.5	-74.9	-85.6	4420.	-2458.	5057.	-32.0
38	110.0	-85.60	-45.8	-81.7	-93.7	4819.	-2696.	5522.	-26.9
39	120.0	-93.38	-47.5	-84.8	-97.2	4969.	-2764.	5696.	-21.8
40	130.0	-101.16	-48.0	-85.0	-97.6	4928.	-2752.	5644.	-16.8
41	140.0	-108.94	-47.2	-83.2	-95.6	4769.	-2659.	5460.	-12.1
42	150.0	-116.72	-45.4	-80.1	-92.1	4538.	-2520.	5191.	-7.7
43	160.0	-124.50	-43.3	-76.3	-87.7	4269.	-2373.	4885.	-3.8
44	170.0	-132.29	-40.8	-71.1	-81.9	3897.	-2205.	4477.	-.3
45	180.0	-140.07	-37.9	-65.3	-75.5	3508.	-2025.	4050.	2.8
46	190.0	-147.85	-35.2	-60.1	-69.6	3212.	-1873.	3718.	5.7
47	200.0	-155.63	-32.1	-54.2	-63.0	2890.	-1706.	3356.	8.5
48	210.0	-163.41	-28.3	-47.3	-55.1	2529.	-1505.	2943.	11.2
49	220.0	-171.19	-24.1	-39.4	-46.2	2127.	-1284.	2485.	13.2
50	230.0	-178.98	-19.3	-30.8	-36.3	1686.	-1033.	1978.	15.6
51	240.0	-186.76	-14.0	-20.9	-25.2	1190.	-767.	1416.	17.7
52	250.0	-194.54	-7.8	-10.0	-12.7	653.	-454.	796.	19.3
53	260.0	-202.32	-1.8	.9	-2.0	74.	-136.	155.	21.0

```
**** L O A D   S U M M A R Y   R E P O R T ****

WAVE NUMBER =   1                              WAVE DIRECTION = 60.000

               X SHEAR FORCE =          104.9350 KIPS
               Y SHEAR FORCE =          187.3845 KIPS
       RESULTANT SHEAR FORCE =          214.7657 KIPS

             X MUDLINE MOMENT =      -14743.3502 FT-KIPS
             Y MUDLINE MOMENT =        8136.9282 FT-KIPS
     RESULTANT MUDLINE MOMENT =       16839.7143 FT-KIPS

             Z VERTICAL FORCE =           -4.0207 KIPS
```

6 0 0 0 R E M O T E B A T C H

UNITED COMPUTING 67, APEX/BL B.6.0

09.10.02.   07/20/76.

```
PPPPPPPPPPP   UU        UU  YY        YY    OOOOOOOO    LL            IIIIIIIIIIII   GGGGGGGGGG
PPPPPPPPPPPP  UU        UU  YY        YY   OO      OO   LL            IIIIIIIIIIII  GGGGGGGGGGGG
PP        PP  UU        UU  YY        YY  OO        OO  LL                 II       GG         G
PP        PP  UU        UU  YY        YY  OO        OO  LL                 II       GG
PP        PP  UU        UU  YY        YY  OO        OO  LL                 II       GG
PP        PP  UU        UU  YY        YY  OO        OO  LL                 II       GG
PPPPPPPPPPPP  UU        UU  YYY      YYY  OO        OO  LL                 II       GG
PPPPPPPPPPP   UU        UU   YYY    YYY   OO        OO  LL                 II       GG
PP            UU        UU    YYY  YYY    OO        OO  LL                 II       GG
PP            UU        UU      YYYY      OO        OO  LL                 II       GG     GGGG
PP            UU        UU       YY       OO        OO  LL                 II       GG     GGGG
PP            UU        UU       YY       OO        OO  LL                 II       GG        GG
PP            UU        UU       YY       OO        OO  LL                 II       GG        GG
PP            UU        UU       YY       OO        OO  LL          LL     II       GG        GG
PP            UUUUUUUUUUUU       YY        OO      OO   LLLLLLLLLLLL  IIIIIIIIIIII  GGGGGGGGGGGG
PP             UUUUUUUUUU        YY         OOOOOOOO    LLLLLLLLLLLL  IIIIIIIIIIII   GGGGGGGGGG
```

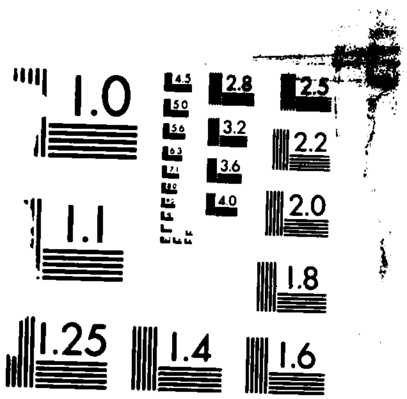
32 FT WAVE HEIGHT

10.4 SEC WAVE PERIOD

2.3 FPS SURFACE CURRENT
(1.4 knot)

AD-A165 651 FATIGUE ANALYSIS EAST COAST AIR COMBAT MANEUVERING RANGE OFFSHORE KITTY H.. (U) CREST ENGINEERING INC TULSA OK SEP 76 27-771-100 CHES/NAVFAC-FPO-7616 6/6

UNCLASSIFIED N62477-76-C-0179 F/G 13/13 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

```
*******************************************
*                                         *
*              SEALOAD-2                  *
*                                         *
*  DEVELOPED BY SYNERCOM TECHNOLOGY, INC. *
*           HOUSTON, TEXAS                *
*         RELEASE 2  MOD 12               *
*             JULY 1976                   *
*                                         *
*******************************************
                                                                    PAGE    1

                  1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

  1  COEF    12.    0.74        1.34
  2          24.    0.74        1.34
  3          36.    0.74        1.34
  4          48.    0.74        1.34
  5          72.    0.74        1.34
  6  END    144.0   0.74        1.34
  7  VCUR              1.0      0.2
  8                   10.9      0.4
  9                   21.9      0.5
 10                   32.8      0.7
 11                   43.7      0.8
 12                   54.7      0.9
 13                   65.6      0.9
 14                   76.5      1.0
 15                   67.4      1.1
 16                   98.4      1.2
 17  END             109.3      1.4
 18                           32 FT WAVE HEIGHT
 19                             C, CHERN
 20                                 JULY, 1976
 21                                 27-771-01
 22  STRAN    1 60028028010011                  DF  1    00  1  320  10930 104  3 11
 23  END
```

**** C O E F F I C I E N T   T A B L E   R E P O R T ****

DIAMETER IN	NORMAL DRAG COEF	TANG DRAG COEF	MASS COEF
12.000	.7400	-0.0000	1.3400
24.000	.7400	-0.0000	1.3400
36.000	.7400	-0.0000	1.3400
48.000	.7400	-0.0000	1.3400
72.000	.7400	-0.0000	1.3400
144.000	.7400	-0.0000	1.3400

32 FT WAVE HEIGHT

C. CHERN

JULY, 1976

27-771-01

```
INPUT UNITS
        ....ENGLISH
OUTPUT UNITS
        ....ENGLISH
```

**** S T O K E S   W A V E   C O N S T A N T S   R E P O R T ****

```
      WAVE HEIGHT =    32.000    FT
MEAN WATER DEPTH =    109.300    FT
      WAVE PERIOD =    10.400    SEC
      WAVE LENGTH =   510.704    FT
    WAVE CELERITY =    49.104    FT/SEC
              D/L =   .214018
           LAMBDA =    .16993

   BETA =       .01230
    C02 =    28.077993
    A11 =    .55920806
    A13 =   -.63096768
    A15 =   -1.0625884
    A22 =    .36671186E-01
    A24 =    .96394685E-01
    A33 =   -.10130175E-02
    A35 =    .29189814E-01
    A44 =   -.24484599E-03
    A55 =    .19884232E-04
    B22 =    .84158433
    B24 =    1.2687972
    B33 =    .84971745
    B35 =    3.1229657
    B44 =    1.0141689
    B55 =    1.3334869
     C1 =    1.4227272
     C2 =    3.9015599
     C3 =   -.68234160E-01
     C4 =    .55720116E-01

   D1 TO D5    4.9897847     .14222494     .40273109E-04   -.62574430E-04   .12064390E-05

   E1 TO E5    15.437322     2.6037747     .53589327        .10725811       .26785016E-01
```

WAVE PROFILE TABLE

THETA=	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.
X(FT)=	0.0	14.2	28.4	42.6	56.7	70.9	85.1	99.3	113.5	127.7	141.9	156.0	170.2	184.4	198.6	212.8	227.0	241.2	255.4
DEPTH(FT)=	128.0	127.5	126.1	123.9	121.2	118.2	115.1	112.2	109.4	106.8	104.5	102.5	100.7	99.3	98.1	97.2	96.5	96.1	96.0

*** * * * WAVE POSITION SUMMARY REPORT * * * ***

LOAD CONDITION 1 — WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG. WAVE-TU-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
1	-280.0	197.37	-36.6	-62.1	-72.1	3129.	-1839.	3629.	9.6
2	-270.0	190.33	-33.0	-55.3	-64.4	2791.	-1653.	3244.	12.2
3	-260.0	183.28	-28.7	-47.4	-55.4	2403.	-1435.	2799.	14.5
4	-250.0	176.23	-24.0	-38.6	-45.4	1978.	-1200.	2314.	16.9
5	-240.0	169.18	-18.4	-28.4	-33.9	1488.	-931.	1755.	19.2
6	-230.0	162.13	-12.0	-17.4	-21.1	955.	-628.	1143.	21.0
7	-220.0	155.08	-5.4	-5.3	-7.6	384.	-305.	490.	23.1
8	-210.0	148.03	1.8	7.2	+7.4	-235.	48.	240.	24.7
9	-200.0	140.98	9.1	20.6	+22.5	-923.	427.	1017.	28.4
10	-190.0	133.93	17.4	34.1	+38.3	-1653.	850.	1859.	31.1
11	-180.0	126.88	25.4	48.1	+54.4	-2440.	1297.	2764.	32.5
12	-170.0	119.83	33.0	62.1	+70.4	-3278.	1727.	3705.	33.8
13	-160.0	112.79	40.9	75.4	+85.8	-4121.	2208.	4675.	34.9
14	-150.0	105.74	47.9	88.4	+100.6	-4983.	2654.	5646.	35.7
15	-140.0	98.69	54.8	100.8	+114.7	-5857.	3120.	6637.	36.2
16	-130.0	91.64	61.8	113.1	+128.9	-6777.	3631.	7688.	36.2
17	-120.0	84.59	69.2	126.7	+144.4	-7871.	4214.	8928.	37.2
18	-110.0	77.54	77.4	142.1	+161.8	-9136.	4875.	10355.	37.8
19	-100.0	70.49	86.0	158.0	+179.9	-10486.	5609.	11892.	37.0
20	-90.0	63.44	95.4	175.7	+199.9	-12037.	6407.	13636.	35.9
21	-80.0	56.39	105.6	195.3	+222.0	-13840.	7311.	15653.	35.3
22	-70.0	49.34	117.0	215.0	+244.7	-15712.	8389.	17811.	34.2
23	-60.0	42.29	127.4	231.3	+264.1	-17299.	9405.	19690.	28.6
24	-50.0	35.25	134.8	244.2	+279.0	-18605.	10130.	21184.	19.2
25	-40.0	28.20	140.2	253.0	+289.3	-19606.	10710.	22341.	8.9
26	-30.0	21.15	142.8	256.4	+293.5	-20158.	11061.	22994.	-2.2
27	-20.0	14.10	142.1	253.6	+290.7	-20213.	11149.	23084.	-14.0
28	-10.0	7.05	137.7	244.2	+280.4	-19701.	10928.	22529.	-25.8
29	0.0	-0.00	129.5	227.9	+262.2	-18590.	10387.	21295.	-36.6
30	10.0	-7.05	117.4	204.8	+236.1	-16891.	9506.	19382.	-46.5

33	40.0	-28.20	63.8	107.3	+124.9	[illegible]	5391.	10819.	-67.9

**** WAVE POSITION SUMMARY REPORT ****

LOAD CONDITION 1 WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG.WAVE-TU-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
34	50.0	-35.25	43.5	71.0	+83.2	-6591.	3833.	7625.	-72.0
35	60.0	-42.29	23.4	35.2	+42.3	-3880.	2320.	4520.	-74.1
36	70.0	-49.34	4.5	1.7	+4.8	-1301.	943.	1607.	-71.1
37	80.0	-56.39	-12.7	-28.7	-31.4	986.	-367.	1053.	-63.1
38	90.0	-63.44	-28.0	-53.4	-60.3	2790.	-1486.	3161.	-53.3
39	100.0	-70.49	-39.3	-72.0	-82.0	4083.	-2251.	4663.	-45.1
40	110.0	-77.54	-47.0	-84.5	-96.7	4876.	-2724.	5585.	-39.0
41	120.0	-84.59	-51.8	-92.4	-106.0	5338.	-2987.	6117.	-33.1
42	130.0	-91.64	-54.1	-96.1	-110.3	5502.	-3076.	6304.	-27.3
43	140.0	-98.69	-54.8	-96.8	-111.2	5478.	-3068.	6279.	-21.8
44	150.0	-105.74	-53.9	-95.3	-109.5	5324.	-2968.	6096.	-16.6
45	160.0	-112.79	-52.5	-92.8	-106.6	5110.	-2843.	5848.	-12.1
46	170.0	-119.83	-50.6	-89.6	-102.9	4860.	-2691.	5555.	-8.1
47	180.0	-126.88	-48.8	-85.2	-98.2	4508.	-2557.	5183.	-4.3
48	190.0	-133.93	-46.9	-81.0	-93.6	4186.	-2422.	4836.	-1.2
49	200.0	-140.98	-44.9	-77.4	-89.5	3959.	-2299.	4578.	1.5
50	210.0	-148.03	-42.3	-73.1	-84.5	3715.	-2142.	4288.	4.3
51	220.0	-155.08	-39.9	-68.3	-79.1	3449.	-2005.	3989.	6.8
52	230.0	-162.13	-36.8	-62.5	-72.5	3152.	-1849.	3654.	9.5
53	240.0	-169.18	-33.3	-55.8	-64.9	2814.	-1667.	3271.	12.1
54	250.0	-176.23	-29.0	-48.0	-56.1	2430.	-1454.	2832.	14.4
55	260.0	-183.28	-24.4	-39.2	-46.2	2012.	-1221.	2353.	16.8
56	270.0	-190.33	-18.9	-29.2	-34.8	1525.	-952.	1798.	19.1
57	280.0	-197.37	-12.5	-18.3	-22.2	998.	-655.	1194.	20.9

```
**** L O A D   S U M M A R Y   R E P O R T ****

WAVE NUMBER =   1                               WAVE DIRECTION = 60,000

                X SHEAR FORCE =          142,0683 KIPS
                Y SHEAR FORCE =          253,6307 KIPS
        RESULTANT SHEAR FORCE =          290,7094 KIPS

             X MUDLINE MOMENT =       -20212,9884 FT-KIPS
             Y MUDLINE MOMENT =        11148,5185 FT-KIPS
     RESULTANT MUDLINE MOMENT =        23083,6385 FT-KIPS

             Z VERTICAL FORCE =          -13,9792 KIPS
```

6000 REMOTE BATCH

UNITED COMPUTING 67. APEX/SL B.6.0

08.07.04.   07/20/76.

```
PPPPPPPPPPP   UU        UU  YY        YY  ZZZZZZZZZZZZ   GGGGGGGGGG   NN         NN  LL
PPPPPPPPPPPP  UU        UU  YY        YY  ZZZZZZZZZZZZ  GGGGGGGGGGGG  NNN        NN  LL
PP        PP  UU        UU  YY        YY  Z         ZZ  GG         G  NNNN       NN  LL
PP        PP  UU        UU  YY        YY           ZZ   GG            NN NN      NN  LL
PP        PP  UU        UU  YY        YY          ZZ    GG            NN  NN     NN  LL
PP        PP  UU        UU  YY        YY         ZZ     GG            NN   NN    NN  LL
PPPPPPPPPPPP  UU        UU  YYY      YYY        ZZ      GG            NN    NN   NN  LL
PPPPPPPPPPP   UU        UU   YYY    YYY      ZZZZZZZZ   GG            NN     NN  NN  LL
PP            UU        UU    YYY  YYY         ZZ       GG      GGGG  NN      NNNN  LL
PP            UU        UU      YYYY          ZZ        GG      GGGG  NN       NNN  LL
PP            UU        UU       YY          ZZ         GG        GG  NN        NN  LL
PP            UU        UU       YY         ZZ          GG        GG  NN        NN  LL
PP            UU        UU       YY        ZZ           GG        GG  NN        NN  LL
PP            UU        UU       YY       ZZ         Z  GG        GG  NN        NN  LL          LL
PP            UUUUUUUUUUUU       YY       ZZZZZZZZZZZZ  GGGGGGGGGGGG  NN        NN  LLLLLLLLLLLL
PP             UUUUUUUUUU        YY       ZZZZZZZZZZZZ   GGGGGGGGGG   NN        NN  LLLLLLLLLLLL
```

37 FT WAVE HEIGHT

10.9 SEC WAVE PERIOD

2.7 FPS SURFACE CURRENT

(1.6 knot)

```
     ************************************************
     *                                              *
     *                 SEALOAD-2                    *                    PAGE    1
     *                                              *
     *  DEVELOPED BY SYNERCOM TECHNOLOGY, INC.      *
     *             HOUSTON, TEXAS                   *
     *           RELEASE 2  MOD 12                  *
     *               JULY 1976                      *
     *                                              *
     ************************************************

                   1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

    1  COEF   12.   0.74         1.34
    2         24.   0.74         1.34
    3         36.   0.74         1.34
    4         48.   0.74         1.34
    5         72.   0.74         1.34
    6  END   144.0  0.74         1.34
    7  VCUR            1.0       0.2
    8                 11.0       0.5
    9                 22.0        .7
   10                 33.0       0.8
   11                 44.0       0.9
   12                 54.9       1.0
   13                 65.9       1.1
   14                 76.9       1.2
   15                 87.9       1.4
   16                 98.9       1.5
   17  END           109.9       1.6
   18                           37 FT WAVE HEIGHT
   19                             C. CHERN
   20                                JULY, 1976
   21                                27-771-01
   22  STHAN   1 60030030010011                  DF  1    00  1  370  10990 109  3 11
   23  END
```

**** C O E F F I C I E N T   T A B L E   R E P O R T ****

DIAMETER IN	NORMAL DRAG COEF	TANG DRAG COEF	MASS COEF
12.000	.7400	-0.0000	1.3400
24.000	.7400	-0.0000	1.3400
36.000	.7400	-0.0000	1.3400
48.000	.7400	-0.0000	1.3400
72.000	.7400	-0.0000	1.3400
144.000	.7400	-0.0000	1.3400

37 FT WAVE HEIGHT

C. CHERN

JULY, 1976

27-771-01

INPUT UNITS
....ENGLISH

OUTPUT UNITS
....ENGLISH

****** S T O K E S   W A V E   C O N S T A N T S   R E P O R T ******

WAVE HEIGHT =	37.000	FT
MEAN WATER DEPTH =	109.900	FT
WAVE PERIOD =	10.900	SEC
WAVE LENGTH =	552.641	FT
WAVE CELERITY =	50.698	FT/SEC
D/L =	.198863	
LAMBDA =	.20041	

BETA =	.01137
C02 =	27.284720
A11 =	.62462360
A13 =	-.79678742
A15 =	-1.4352820
A22 =	.57032741E-01
A24 =	.11181007
A33 =	-.72589326E-03
A35 =	.52762626E-01
A44 =	-.62683013E-03
A55 =	.20021583E-04
B22 =	.93453244
B24 =	1.4067218
B33 =	1.0102272
B35 =	3.7316058
B44 =	1.2655130
B55 =	1.7972251
C1 =	1.5614029
C2 =	5.1523697
C3 =	-.82726610E-01
C4 =	.79123594E-01

D1 TO D5	5.9978448	.25076760	.17059088E-02	-.20507421E-03	.16409562E-05
E1 TO E5	17.627504	3.5011192	.82138653	.18212654	.51109639E-01

WAVE PROFILE TABLE

THETA=	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.
X(FT)=	0.0	15.4	30.7	46.1	61.4	76.8	92.1	107.5	122.8	138.2	153.5	168.9	184.2	199.6	214.9	230.3	245.6	261.0	276.3
DEPTH(FT)=	132.1	131.4	129.6	126.8	123.4	119.7	116.1	112.6	109.4	106.6	104.1	101.9	100.0	98.5	97.3	96.3	95.6	95.2	95.1

**** WAVE POSITION SUMMARY REPORT ****

LOAD CONDITION 1 WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG. WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
1	-300.0	195.43	-42.2	-71.9	-83.4	3405.	-1994.	3946.	9.4
2	-290.0	188.91	-39.0	-65.6	-76.3	3100.	-1827.	3598.	12.0
3	-280.0	182.40	-35.0	-58.2	-67.9	2750.	-1634.	3199.	14.4
4	-270.0	175.88	-30.3	-49.8	-58.3	2359.	-1413.	2749.	16.4
5	-260.0	169.37	-25.2	-40.1	-47.4	1914.	-1172.	2244.	18.8
6	-250.0	162.85	-19.0	-29.0	-34.7	1412.	-891.	1669.	21.1
7	-240.0	156.34	-12.4	-17.3	-21.3	866.	-580.	1043.	23.1
8	-230.0	149.83	-5.0	-4.6	-6.7	268.	-236.	357.	25.2
9	-220.0	143.31	2.6	9.5	+9.8	-390.	122.	409.	26.9
10	-210.0	136.80	10.7	23.5	+25.8	-1084.	520.	1203.	30.5
11	-200.0	130.28	19.1	37.7	+42.3	-1835.	945.	2064.	34.1
12	-190.0	123.77	27.8	53.0	+59.9	-2660.	1414.	3012.	35.9
13	-180.0	117.26	36.3	68.3	+77.3	-3544.	1869.	4007.	37.8
14	-170.0	110.74	44.6	82.7	+93.9	-4443.	2368.	5034.	39.4
15	-160.0	104.23	52.4	97.0	+110.2	-5382.	2859.	6094.	41.2
16	-150.0	97.71	60.3	111.0	+126.3	-6348.	3376.	7190.	42.4
17	-140.0	91.20	68.4	125.4	+142.8	-7399.	3953.	8389.	43.6
18	-130.0	84.68	77.3	142.0	+161.7	-8694.	4636.	9853.	46.0
19	-120.0	78.17	87.1	161.0	+183.0	-10215.	5416.	11562.	48.1
20	-110.0	71.66	98.5	181.3	+206.3	-11889.	6342.	13474.	48.7
21	-100.0	65.14	110.5	204.8	+232.7	-13680.	7333.	15698.	49.8
22	-90.0	58.63	124.5	231.3	+262.7	-16217.	8533.	18325.	51.8
23	-80.0	52.11	140.2	258.5	+294.1	-18065.	9944.	21148.	52.6
24	-70.0	45.60	155.1	283.5	+323.2	-20935.	11297.	23789.	47.4
25	-60.0	39.09	167.5	305.8	+348.7	-23011.	12429.	26153.	37.7
26	-50.0	32.57	178.5	324.7	+370.5	-24855.	13465.	28268.	26.4
27	-40.0	26.06	186.8	338.6	+386.7	-26323.	14301.	29957.	13.7
28	-30.0	19.54	192.0	346.2	+395.8	-27295.	14901.	31096.	-.0
29	-20.0	13.03	193.1	346.3	+396.5	-27655.	15172.	31584.	-14.3
30	-10.0	6.51	189.6	337.9	+387.5	-27275.	15059.	31156.	-28.5
31	0.0	-0.00	181.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

33	20.0	-13.03	149.7	260.1	+300.1	[illegible]	12134.	24677.	-65.2

* * * * WAVE POSITION SUMMARY REPORT * * * *

LOAD CONDITION 1 — WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG.WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
34	30.0	-19.54	128.0	219.9	+254.5	-18311.	10435.	21076.	-74.7
35	40.0	-26.06	103.6	176.0	+204.2	-14844.	8506.	17108.	-81.8
36	50.0	-32.57	77.0	130.4	+151.8	-11266.	6498.	13006.	-86.6
37	60.0	-39.09	52.4	85.6	+100.4	-7810.	4539.	9033.	-89.6
38	70.0	-45.60	28.4	43.0	+51.5	-4564.	2721.	5313.	-90.3
39	80.0	-52.11	6.2	3.4	+7.1	-1601.	1110.	1948.	-86.5
40	90.0	-58.63	-13.7	-31.1	-34.0	996.	-359.	1059.	-76.3
41	100.0	-65.14	-30.7	-58.9	-66.5	3006.	-1587.	3399.	-63.0
42	110.0	-71.66	-43.3	-79.4	-90.5	4409.	-2437.	5037.	-52.3
43	120.0	-78.17	-51.9	-93.2	-106.7	5260.	-2945.	6029.	-45.0
44	130.0	-84.68	-57.0	-101.5	-116.4	5729.	-3214.	6569.	-37.9
45	140.0	-91.20	-59.2	-105.2	-120.7	5883.	-3292.	6741.	-31.3
46	150.0	-97.71	-59.9	-105.9	-121.6	5849.	-3273.	6703.	-25.3
47	160.0	-104.23	-59.0	-104.4	-119.9	5673.	-3169.	6498.	-19.5
48	170.0	-110.74	-57.6	-101.9	-117.0	5445.	-3034.	6234.	-14.7
49	180.0	-117.26	-55.7	-98.6	-113.3	5162.	-2874.	5908.	-10.6
50	190.0	-123.77	-54.3	-94.7	-109.2	4810.	-2751.	5541.	-6.6
51	200.0	-130.28	-52.8	-91.6	-105.7	4555.	-2627.	5258.	-3.5
52	210.0	-136.80	-51.4	-89.0	-102.8	4367.	-2526.	5045.	-1.0
53	220.0	-143.31	-49.9	-86.1	-99.5	4178.	-2423.	4829.	1.5
54	230.0	-149.83	-48.0	-82.7	-95.7	3971.	-2308.	4593.	3.9
55	240.0	-156.34	-45.6	-78.4	-90.6	3733.	-2161.	4314.	6.3
56	250.0	-162.85	-42.9	-73.4	-85.0	3478.	-2029.	4027.	8.8
57	260.0	-169.37	-39.9	-67.4	-78.3	3183.	-1672.	3693.	11.3
58	270.0	-175.88	-36.2	-60.4	-70.4	2849.	-1691.	3313.	13.9
59	280.0	-182.40	-31.5	-52.0	-60.8	2460.	-1469.	2866.	15.9
60	290.0	-188.91	-26.6	-42.7	-50.3	2033.	-1235.	2379.	18.0
61	300.0	-195.43	-20.8	-32.1	-38.2	1544.	-970.	1823.	20.5

**** L O A D   S U M M A R Y   R E P O R T ****

WAVE NUMBER = 1   WAVE DIRECTION = 60.000

X SHEAR FORCE =	193.0694	KIPS
Y SHEAR FORCE =	346.3442	KIPS
RESULTANT SHEAR FORCE =	396.5225	KIPS
X MUDLINE MOMENT =	-27655.0575	FT-KIPS
Y MUDLINE MOMENT =	15172.1334	FT-KIPS
RESULTANT MUDLINE MOMENT =	31543.5547	FT-KIPS
Z VERTICAL FORCE =	-14.2643	KIPS

6 0 0 0 R E M O T E B A T C H

UNITED COMPUTING 67, APEX/SL 8.6.0

16.42.08.   07/19/76.

```
PPPPPPPPPPP   UU        UU  YY        YY  ZZZZZZZZZZZZ   GGGGGGGGGG   FFFFFFFFFFFF  JJJJJJJJJJJJ
PPPPPPPPPPPP  UU        UU  YY        YY  ZZZZZZZZZZZZ  GGGGGGGGGGGG  FFFFFFFFFFFF  JJJJJJJJJJJJ
PP        PP  UU        UU  YY        YY  Z         ZZ  GG         G  FF                  JJ
PP        PP  UU        UU  YY        YY           ZZ   GG            FF                  JJ
PP        PP  UU        UU  YY        YY          ZZ    GG            FF                  JJ
PP        PP  UU        UU  YY        YY         ZZ     GG            FF                  JJ
PPPPPPPPPPPP  UU        UU  YYY      YYY        ZZ      GG            FF                  JJ
PPPPPPPPPPP   UU        UU   YYY    YYY     ZZZZZZZZ    GG            FFFFFFFF            JJ
PP            UU        UU    YYY  YYY         ZZ       GG     GGGG   FFFFFFFF            JJ
PP            UU        UU      YYYY          ZZ        GG     GGGG   FF                  JJ
PP            UU        UU       YY          ZZ         GG        GG  FF                  JJ
PP            UU        UU       YY         ZZ          GG        GG  FF                  JJ
PP            UU        UU       YY        ZZ           GG        GG  FF                  JJ
PP            UU        UU       YY       ZZ         Z  GG        GG  FF            JJ    JJ
PP            UUUUUUUUUUUU       YY       ZZZZZZZZZZZZ  GGGGGGGGGGGG  FF            JJJJJJJ
PP             UUUUUUUUUU        YY       ZZZZZZZZZZZZ   GGGGGGGGGG   FF             JJJJJ
```

42 FT WAVE HEIGHT

11.4 SEC WAVE PERIOD

3.1 FPS SURFACE CURRENT
(1.8 knot)

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                 ****************************************************
                 *                                                  *
                 *                   SEALOAD-2                      *                  PAGE    1
                 *                                                  *
                 *   DEVELOPED BY SYNERCOM TECHNOLOGY, INC.         *
                 *              HOUSTON, TEXAS                      *
                 *            RELEASE 2  MOD 12                     *
                 *               JULY 1976                          *
                 *                                                  *
                 ****************************************************

                         1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

     1  COEF    12.   0.74        1.34
     2          24.   0.74        1.34
     3          36.   0.74        1.34
     4          48.   0.74        1.34
     5          72.   0.74        1.34
     6  END    144.0  0.74        1.34
     7  VCUR               1.0    0.2
     8                    11.0    0.6
     9                    22.1    0.8
    10                    33.1    0.9
    11                    44.2    1.0
    12                    55.2    1.2
    13                    66.2    1.3
    14                    77.3    1.4
    15                    88.3    1.5
    16                    99.4    1.7
    17  END              110.4    1.8
    18  U.S. NAVY - ACMR STRUCTURES  -- MLW 105 FT
    19                         42 FT WAVE HEIGHT
    20                          C. CHERN
    21                               JULY, 1976
    22                               27-771-01
    23  STRAN    1 60030030010011            DP  1    00  1  420  11040 114  3 11
    24  END
```

**** C O E F F I C I E N T   T A B L E   R E P O R T ****

DIAMETER IN	NORMAL DRAG COEF	TANG DRAG COEF	MASS COEF
12,000	.7400	-0,0000	1,3400
24,000	.7400	-0,0000	1,3400
36,000	.7400	-0,0000	1,3400
46,000	.7400	-0,0000	1,3400
72,000	.7400	-0,0000	1,3400
144,000	.7400	-0,0000	1,3400

U.S. NAVY - ACMR STRUCTURES -- ML= 105 FT

42 FT WAVE HEIGHT

C. CHERN

JULY, 1976

27-771-01

INPUT UNITS
....ENGLISH

OUTPUT UNITS
....ENGLISH

**** STOKES WAVE CONSTANTS REPORT ****

```
         WAVE HEIGHT =    42.000    FT
    MEAN WATER DEPTH =   110.400    FT
         WAVE PERIOD =    11.400    SEC
         WAVE LENGTH =   595.477    FT
       WAVE CELERITY =    52.232    FT/SEC
                 D/L =    .185398
              LAMBDA =    .20796

     BETA =      .01055
      CO2 =    26.463886
      A11 =     .69117965
      A13 =   -1.0043163
      A15 =   -1.8925274
      A22 =     .85584483E-01
      A24 =     .11375627
      A33 =     .73835285E-03
      A35 =     .90616100E-01
      A44 =    -.13621424E-02
      A55 =    -.43895553E-04
      B22 =    1.0433620
      B24 =    1.5111477
      B33 =    1.2151959
      B35 =    4.4521614
      B44 =    1.6509735
      B55 =    2.4723857
       C1 =    1.7344828
       C2 =    6.8157530
       C3 =    -.98248165E-01
       C4 =     .10908311

   D1 TO D5    6.9974427      .40887586     .65632920E-02    -.54008649E-03    -.44588183E-05

   E1 TO E5    19.708967      4.5442523     1.1998956         .29264431         .91137036E-01
```

WAVE PROFILE TABLE

THETA=	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.
X(FT)=	0.0	16.5	33.1	49.6	66.2	82.7	99.2	115.8	132.3	148.9	165.4	182.0	198.5	215.0	231.6	248.1	264.7	281.2	297.7
DEPTH(FT)=	136.2	135.4	133.0	129.5	125.3	120.9	116.7	112.8	109.2	106.1	103.5	101.2	99.3	97.7	96.5	95.5	94.8	94.4	94.2

*** * * * WAVE POSITION SUMMARY REPORT * * * ***

LOAD CONDITION 1 — WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG, WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
1	-300.0	181.37	-41.5	-69.4	−80.9	3106.	-1838.	3609.	13.8
2	-290.0	175.32	-37.0	-61.3	−71.6	2748.	-1635.	3198.	16.0
3	-280.0	169.28	-32.0	-52.1	−61.2	2341.	-1412.	2734.	18.0
4	-270.0	163.23	-26.3	-41.7	−49.3	1890.	-1164.	2220.	20.3
5	-260.0	157.18	-19.9	-30.0	−36.0	1374.	-880.	1631.	22.4
6	-250.0	151.14	-12.7	-17.5	−21.6	817.	-552.	986.	24.7
7	-240.0	145.09	-5.1	-3.8	− 6.3	201.	-213.	292.	26.8
8	-230.0	139.05	3.3	10.5	+ 11.0	-457.	169.	487.	28.6
9	-220.0	133.00	11.5	25.1	+ 27.6	-1154.	558.	1282.	32.1
10	-210.0	126.96	20.2	40.1	+ 44.9	-1922.	987.	2160.	36.1
11	-200.0	120.91	29.5	56.1	+ 63.4	-2756.	1476.	3127.	38.5
12	-190.0	114.87	38.3	72.1	+ 81.6	-3665.	1933.	4144.	40.8
13	-180.0	108.82	47.2	87.0	+ 99.5	-4610.	2460.	5225.	43.3
14	-170.0	102.77	55.7	102.9	+ 117.0	-5590.	2978.	6333.	45.8
15	-160.0	96.73	64.2	118.3	+ 134.7	-6645.	3525.	7522.	47.9
16	-150.0	90.68	73.4	134.7	+ 153.4	-7804.	4164.	8845.	50.1
17	-140.0	84.64	83.5	153.7	+ 174.9	-9236.	4909.	10460.	53.7
18	-130.0	78.59	94.9	175.5	+ 199.5	-10951.	5789.	12387.	57.6
19	-120.0	72.55	106.3	200.0	+ 227.4	-12898.	6856.	14607.	59.8
20	-110.0	66.50	122.8	228.4	+ 259.3	-15234.	8017.	17214.	62.6
21	-100.0	60.46	139.9	261.1	+ 296.2	-18023.	9443.	20347.	67.6
22	-90.0	54.41	159.7	296.0	+ 336.3	-21043.	11155.	23817.	71.3
23	-80.0	48.36	179.4	329.8	+ 375.4	-23985.	12875.	27222.	67.3
24	-70.0	42.32	197.2	362.2	+ 412.4	-26862.	14415.	30485.	58.7
25	-60.0	36.27	214.1	392.3	+ 446.9	-29627.	15918.	33632.	47.5
26	-50.0	30.23	229.1	418.3	+ 476.9	-32133.	17316.	36501.	33.9
27	-40.0	24.18	241.3	439.0	+ 500.9	-34258.	18515.	38941.	18.9
28	-30.0	18.14	249.6	452.1	+ 516.5	-35794.	19435.	40730.	2.3
29	-20.0	12.09	253.2	455.7	+ 521.1	-36535.	19957.	41631.	-14.7
30	-10.0	6.05	250.8	448.6	+ 514.0	-36341.	19977.	41470.	-31.6
31	0.0	-0.00	242.4	430.2	+ 493.8	-35116.	[illegible]	[illegible]	[illegible]

[illegible]	[illegible]	-6.05	227.6	400.4	+460.6	-32052.	18356.	37632.	-63.2
33	2[illegible]	-12.09	206.5	360.3	+415.3	[illegible]54.	16711.	34048.	-76.7

**** WAVE POSITION SUMMARY REPORT ****

LOAD CONDITION 1 WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG.WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
[illegible]	30.0	-18.14	180.9	312.4	+ 361.0	-25778.	14685.	29648.	-88.1
35	40.0	-24.18	151.7	259.2	+ 300.3	-21462.	12284.	24729.	-96.8
36	50.0	-30.23	120.3	203.0	+ 236.0	-16961.	9778.	19578.	-103.0
37	60.0	-36.27	88.7	147.2	+ 171.9	-12566.	7284.	14524.	-106.3
38	70.0	-42.32	58.2	94.2	+ 110.7	-8462.	4941.	9799.	-107.5
39	80.0	-48.36	30.2	45.2	+ 54.4	-4770.	2854.	5558.	-106.3
40	90.0	-54.41	5.3	.8	+ 5.4	-1461.	1065.	1808.	-99.6
41	100.0	-60.46	-16.7	-37.1	- 40.7	1327.	-534.	1430.	-86.2
42	110.0	-66.50	-35.2	-66.9	- 75.6	3432.	-1840.	3894.	-70.0
43	120.0	-72.55	-48.2	-88.3	- 100.6	4852.	-2698.	5552.	-57.8
44	130.0	-78.59	-56.9	-101.7	- 116.6	5671.	-3188.	6506.	-49.2
45	140.0	-84.64	-61.9	-110.1	- 126.3	6116.	-3431.	7013.	-41.3
46	150.0	-90.68	-64.1	-113.5	- 130.3	6234.	-3497.	7148.	-34.1
47	160.0	-96.73	-64.3	-113.7	- 130.7	6155.	-3447.	7055.	-27.5
48	170.0	-102.77	-63.3	-111.9	- 128.6	5954.	-3325.	6820.	-21.3
49	180.0	-108.82	-61.7	-109.3	- 125.5	5699.	-3165.	6519.	-16.7
50	190.0	-114.87	-60.2	-105.5	- 121.5	5339.	-3023.	6135.	-12.0
51	200.0	-120.91	-58.7	-102.1	- 117.7	5009.	-2892.	5784.	-8.3
52	210.0	-126.96	-57.6	-100.3	- 115.6	4838.	-2792.	5585.	-5.5
53	220.0	-133.00	-56.7	-98.4	- 113.6	4683.	-2708.	5409.	-3.1
54	230.0	-139.05	-55.7	-96.7	- 111.6	4532.	-2625.	5238.	-.8
55	240.0	-145.09	-54.6	-94.4	- 109.1	4376.	-2537.	5058.	1.1
56	250.0	-151.14	-53.2	-91.9	- 106.2	4211.	-2445.	4869.	3.4
57	260.0	-157.18	-51.5	-88.7	- 102.6	4023.	-2337.	4653.	5.6
58	270.0	-163.23	-49.2	-84.6	- 97.8	3813.	-2212.	4408.	7.7
5[illegible]	280.0	-169.28	-46.7	-79.5	- 92.1	3567.	-2080.	4132.	10.3
6[illegible]	290.0	-175.32	-43.5	-73.2	- 85.2	3276.	-1937.	3606.	12.4
6[illegible]	300.0	-181.37	-39.4	-66.0	- 76.9	2949.	-1786.	3027.	14.8

**** L O A D   S U M M A R Y   R E P O R T ****

WAVE NUMBER = 1   WAVE DIRECTION = 60.000

X SHEAR FORCE =	253.1981 KIPS
Y SHEAR FORCE =	455.6887 KIPS
RESULTANT SHEAR FORCE =	521.3075 KIPS
X MUDLINE MOMENT =	-36534.9702 FT-KIPS
Y MUDLINE MOMENT =	19957.3174 FT-KIPS
RESULTANT MUDLINE MOMENT =	41630.5004 FT-KIPS
Z VERTICAL FORCE =	-14.6606 KIPS

6000 REMOTE BATCH

UNITED COMPUTING 67, APEX/SL 8.6.0

16.17.56.   07/19/76.

PUYZFZ0

47 FT WAVE HEIGHT

12.0 SEC WAVE PERIOD

3.5 FPS SURFACE CURRENT
(2.1 knot)

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                    ********************************************
                    *                                          *
                    *               SEALOAD-2                  *
                    *                                          *      PAGE    1
                    *  DEVELOPED BY SYNERCOM TECHNOLOGY, INC.  *
                    *            HOUSTON, TEXAS                *
                    *          RELEASE 2  MOD 12               *
                    *             JULY 1976                    *
                    *                                          *
                    ********************************************

                    1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

      1  COEF    12.   0.74        1.34
      2          24.   0.74        1.34
      3          36.   0.74        1.34
      4          48.   0.74        1.34
      5          72.   0.74        1.34
      6  END    144.0  0.74        1.34
      7  VCUR               1.0    0.3
      8                    11.1    0.7
      9                    22.2    0.8
     10                    33.3    1.0
     11                    44.4    1.1
     12                    55.5    1.3
     13                    66.6    1.5
     14                    77.7    1.6
     15                    88.8    1.7
     16                   100.0    2.0
     17  END              111.0    2.1
     18  U.S. NAVY - ACMR STRUCTURES  -- MLW 105 FT
     19                         47 FT WAVE HEIGHT
     20                           C. CHERN
     21                                JULY, 1976
     22                                27-771-01
     23  STRAN   1 60032032010011                    DF  1    00  1  470  11100 120  3 11
     24  END
```

**** C O E F F I C I E N T   T A B L E   R E P O R T ****

DIAMETER IN	NORMAL DRAG COEF	TANG DRAG COEF	MASS COEF
12.000	.7400	-0.0000	1.3400
24.000	.7400	-0.0000	1.3400
36.000	.7400	-0.0000	1.3400
48.000	.7400	-0.0000	1.3400
72.000	.7400	-0.0000	1.3400
144.000	.7400	-0.0000	1.3400

U.S. NAVY - ACMR STRUCTURES -- MLW 105 FT

47 FT WAVE HEIGHT

C. CHERN

JULY, 1976

27-771-01

INPUT UNITS
....ENGLISH

OUTPUT UNITS
....ENGLISH

**** S T O K E S   W A V E   C O N S T A N T S   R E P O R T ****

```
       WAVE HEIGHT =    47.000   FT
  MEAN WATER DEPTH =   111.000   FT
       WAVE PERIOD =    12.000   SEC
       WAVE LENGTH =   646.836   FT
     WAVE CELERITY =    53.900   FT/SEC
               D/L =   .171605
            LAMBDA =   .21037

    BETA =       .00971
     CO2 =    25.495992
     A11 =    .76945167
     A13 =   -1.3095871
     A15 =   -2.5833424
     A22 =    .13144881
     A24 =    .76939464E-01
     A33 =    .55987265E-02
     A35 =    .15786321
     A44 =   -.29540216E-02
     A55 =   -.41339419E-03
     B22 =    1.1911609
     B24 =    1.5828230
     B33 =    1.5229625
     B35 =    5.3908610
     B44 =    2.2470940
     B55 =    3.6531977
      C1 =    1.9864023
      C2 =    9.6702440
      C3 =   -.11730690
      C4 =    .15259387

     D1 TO D5    8.0101329     .64333759     .18945103E-01    -.12473226E-02    -.45900675E-04

     E1 TO E5    21.656775     5.7459277     1.6882774        .45305799         .15494776
```

WAVE PROFILE TABLE

THETA=	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.
X(FT)=	0.0	18.0	35.9	53.9	71.9	89.8	107.8	125.8	143.7	161.7	179.7	197.6	215.6	233.6	251.5	269.5	287.5	305.5	323.8
DEPTH(FT)=	140.7	139.6	136.6	132.3	127.2	122.0	117.1	112.8	109.0	105.7	102.9	100.6	98.7	97.2	96.0	95.0	94.3	93.9	93.7

**** WAVE POSITION SUMMARY REPORT ****

LOAD CONDITION 1 — WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG. WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
1	-320.0	178.10	-45.4	-76.5	- 89.0	3241.	-1909.	3761.	13.3
2	-310.0	172.53	-41.4	-68.9	- 80.4	2918.	-1734.	3395.	15.3
3	-300.0	166.97	-36.6	-60.1	- 70.4	2546.	-1527.	2969.	17.2
4	-290.0	161.40	-31.1	-50.1	- 59.0	2129.	-1294.	2491.	19.4
5	-280.0	155.84	-24.9	-39.2	- 46.4	1672.	-1036.	1967.	21.7
6	-270.0	150.27	-18.3	-26.9	- 32.5	1153.	-751.	1376.	23.7
7	-260.0	144.70	-10.8	-14.0	- 17.7	591.	-429.	730.	25.8
8	-250.0	139.14	-3.0	.2	- 3.0	-40.	-81.	90.	27.7
9	-240.0	133.57	5.3	14.7	+ 15.6	-671.	284.	729.	29.7
10	-230.0	128.01	13.8	29.6	+ 32.7	-1376.	681.	1536.	33.5
11	-220.0	122.44	22.7	45.0	+ 50.4	-2143.	1107.	2412.	37.4
12	-210.0	116.88	32.2	61.4	+ 69.3	-2992.	1593.	3389.	40.2
13	-200.0	111.31	41.3	77.6	+ 87.9	-3895.	2064.	4408.	42.9
14	-190.0	105.75	50.3	93.7	+ 106.3	-4859.	2587.	5505.	45.9
15	-180.0	100.18	59.4	109.9	+ 124.9	-5893.	3134.	6675.	48.8
16	-170.0	94.61	68.5	126.4	+ 143.8	-7006.	3711.	7928.	52.1
17	-160.0	89.05	78.5	144.4	+ 164.3	-8264.	4393.	9360.	55.3
18	-150.0	83.48	89.7	165.4	+ 188.2	-9825.	5216.	11123.	60.4
19	-140.0	77.92	102.7	190.6	+ 216.5	-11756.	6196.	13289.	65.9
20	-130.0	72.35	118.1	219.0	+ 248.8	-13955.	7397.	15794.	70.0
21	-120.0	66.79	135.3	252.6	+ 286.6	-16656.	8730.	18805.	75.4
22	-110.0	61.22	155.7	291.7	+ 330.7	-19893.	10387.	22441.	83.2
23	-100.0	55.66	179.5	333.8	+ 379.1	-23440.	12391.	26514.	89.6
24	-90.0	50.09	203.7	376.5	+ 428.1	-27045.	14437.	30657.	88.0
25	-80.0	44.52	226.9	419.2	+ 476.7	-30719.	16382.	34814.	80.7
26	-70.0	38.96	250.1	461.1	+ 524.6	-34426.	18374.	39023.	70.4
27	-60.0	33.39	272.2	500.7	+ 569.9	-38050.	20335.	43143.	57.3
28	-50.0	27.83	292.3	536.0	+ 610.5	-41451.	22212.	47027.	41.7
29	-40.0	22.26	309.2	564.7	+ 643.8	-44406.	23877.	50418.	24.0
30	-30.0	16.70	321.5	584.3	+ 666.9	-46646.	25196.	53016.	4.9
31	-20.0	11.13	327.9	592.	+ 677.5	-47933.	26035.	54547.	-15.4
32	-10.0	5.57	327.6	587.	+ 672.8	-48011.	[illegible]	[illegible]	[illegible]

[illegible]	[illegible]	[illegible]	327.4	597.	+672.8	-48015.	24263.	54726.	-35.3
33	0	-0.00	319.0	568.7	+652.1	[illegible]5.	25784.	53811.	-54.5

****** WAVE POSITION SUMMARY REPORT ******

LOAD CONDITION 1 — WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG.WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
34	10.0	-5.57	303.0	535.5	+615.3	-48208.	24594.	50589.	-72.7
35	20.0	-11.13	279.4	489.	+563.5	-40431.	22694.	46365.	-88.8
36	30.0	-16.70	249.3	432	+499.5	-35712.	20212.	41035.	-102.1
37	40.0	-22.26	214.7	369	+426.9	-30385.	17347.	34988.	-112.7
38	50.0	-27.83	177.1	301	+349.5	-24797.	14256.	28603.	-120.3
39	60.0	-33.39	138.5	232	+271.0	-19277.	11140.	22265.	-124.8
40	70.0	-38.96	100.9	167	+195.2	-14070.	8166.	16268.	-126.1
41	80.0	-44.52	65.6	105.8	+124.5	-9354.	5459.	10830.	-124.8
42	90.0	-50.09	34.0	50.6	+61.0	-5227.	3126.	6091.	-121.4
43	100.0	-55.66	6.6	2.1	+6.9	-1644.	1172.	2019.	-112.1
44	110.0	-61.22	-17.5	-39.0	-42.8	1349.	-537.	1452.	-95.6
45	120.0	-66.79	-37.2	-70.8	-79.9	3568.	-1912.	4048.	-76.7
46	130.0	-72.35	-51.1	-93.3	-106.4	5041.	-2813.	5772.	-62.3
47	140.0	-77.92	-60.0	-107.4	-123.0	5080.	-3311.	6748.	-52.5
48	150.0	-83.48	-65.3	-115.8	-133.0	6316.	-3557.	7249.	-43.9
49	160.0	-89.05	-67.4	-119.0	-136.7	6425.	-3613.	7371.	-36.0
50	170.0	-94.61	-67.5	-119.0	-136.8	6330.	-3555.	7260.	-28.7
51	180.0	-100.18	-66.2	-116.9	-134.4	6098.	-3412.	6987.	-22.6
52	190.0	-105.75	-64.5	-114.1	-131.1	5832.	-3252.	6678.	-17.6
53	200.0	-111.31	-62.7	-110.0	-126.6	5453.	-3092.	6269.	-13.1
54	210.0	-116.88	-61.4	-106.8	-123.2	5126.	-2965.	5922.	-9.3
55	220.0	-122.44	-60.5	-105.6	-121.6	4968.	-2864.	5734.	-6.9
56	230.0	-128.01	-59.8	-104.3	-120.2	4830.	-2787.	5576.	-4.9
57	240.0	-133.57	-59.4	-103.6	-119.4	4722.	-2725.	5452.	-2.9
58	250.0	-139.14	-59.0	-102.8	-118.5	4617.	-2664.	5330.	-1.0
59	260.0	-144.70	-58.5	-101.7	-117.3	4509.	-2603.	5206.	.6
60	270.0	-150.27	-57.8	-100.2	-115.7	4389.	-2543.	5073.	2.2
61	280.0	-155.84	-56.8	-98.2	-113.4	4256.	-2470.	4921.	3.9
62	290.0	-161.40	-55.3	-95.4	-110.3	4103.	-2377.	4741.	5.6
63	300.0	-166.97	-53.4	-91.6	-106.0	3914.	-2274.	4526.	7.6
64	310.0	-172.53	-50.9	-86.0	-100.7	3684.	[illegible]	[illegible]	[illegible]

**** L O A D   S U M M A R Y   R E P O R T ****

WAVE NUMBER = 1   WAVE DIRECTION = 60.000

X SHEAR FORCE =	327.3636 KIPS
Y SHEAR FORCE =	587.7713 KIPS
RESULTANT SHEAR FORCE =	672.7868 KIPS
X MUDLINE MOMENT =	-48012.9779 FT-KIPS
Y MUDLINE MOMENT =	26262.5587 FT-KIPS
RESULTANT MUDLINE MOMENT =	54726.2992 FT-KIPS
Z VERTICAL FORCE =	-35.3413 KIPS

6000 REMOTE BATCH

UNITED COMPUTING 67, APEX/SL 8.6.0

15.51.00.   07/19/76.

```
PPPPPPPPPPP   UU        UU  YY        YY  ZZZZZZZZZZZZ  FFFFFFFFFFFF  JJJJJJJJJJJ  X          X
PPPPPPPPPPPP  UU        UU  YY        YY  ZZZZZZZZZZZZ  FFFFFFFFFFFF  JJJJJJJJJJJ  XX        XX
PP        PP  UU        UU  YY        YY  Z         ZZ  FF                    JJ    XX        XX
PP        PP  UU        UU  YY        YY           ZZ   FF                    JJ     XX      XX
PP        PP  UU        UU  YY        YY          ZZ    FF                    JJ      XX    XX
PP        PP  UU        UU  YY        YY         ZZ     FF                    JJ       XX  XX
PPPPPPPPPPPP  UU        UU  YYY      YYY        ZZ      FF                    JJ        XXXX
PPPPPPPPPPP   UU        UU   YYY    YYY     ZZZZZZZZ    FFFFFFFF              JJ         XX
PP            UU        UU    YYY  YYY         ZZ       FFFFFFFF              JJ         XX
PP            UU        UU      YYYY          ZZ        FF                    JJ        XXXX
PP            UU        UU       YY          ZZ         FF                    JJ       XX  XX
PP            UU        UU       YY         ZZ          FF                    JJ      XX    XX
PP            UU        UU       YY        ZZ           FF                    JJ     XX      XX
PP            UU        UU       YY       ZZ         Z  FF            JJ      JJ    XX        XX
PP            UUUUUUUUUUUU       YY       ZZZZZZZZZZZZ  FF            JJJJJJJ       XX        XX
PP             UUUUUUUUUU        YY       ZZZZZZZZZZZZ  FF             JJJJJ        X          X
```

52 FT WAVE HEIGHT

12.6 SEC WAVE PERIOD

3.9 FPS SURFACE CURRENT
(2.3 knot)

```
           *****************************************************
           *                                                   *
           *                     SEALOAD-2                     *                              PAGE    1
           *                                                   *
           *        DEVELOPED BY SYNERCOM TECHNOLOGY, INC.     *
           *                  HOUSTON, TEXAS                   *
           *                RELEASE 2  MOD 12                  *
           *                    JULY 1976                      *
           *                                                   *
           *****************************************************

                        1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
 LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

       1  COEF    12.    0.74         1.34
       2          24.    0.74         1.34
       3          36.    0.74         1.34
       4          48.    0.74         1.34
       5          72.    0.74         1.34
       6  END    144.0   0.74         1.34
       7  VCUR              1.0      0.3
       8                   11.2       .7
       9                   22.3       .9
      10                   33.5      1.1
      11                   44.6      1.2
      12                   55.8      1.5
      13                   67.0      1.6
      14                   78.1      1.8
      15                   89.3      2.0
      16                  100.4      2.1
      17  END             111.6      2.3
      18  U.S. NAVY - ACMR STRUCTURES  -- MLW 105 FT
      19                          52 FT WAVE HEIGHT
      20                            C. CHERN
      21                                JULY, 1976
      22                                27-771-01
      23  STRAN   1 60034034010011                DP  1    00  1  520  11160 126  3 11
      24  END
```

**** C O E F F I C I E N T   T A B L E   R E P O R T ****

DIAMETER IN	NORMAL DRAG COEF	TANG DRAG COEF	MASS COEF
12.000	.7400	-0.0000	1.3400
24.000	.7400	-0.0000	1.3400
36.000	.7400	-0.0000	1.3400
48.000	.7400	-0.0000	1.3400
72.000	.7400	-0.0000	1.3400
144.000	.7400	-0.0000	1.3400

U.S. NAVY - ACMR STRUCTURES -- MLW 105 FT

52 FT WAVE HEIGHT

C. CHERN

JULY, 1976

27-771-01

INPUT UNITS
....ENGLISH

OUTPUT UNITS
....ENGLISH

**** S T O K E S   W A V E   C O N S T A N T S   R E P O R T ****

```
     WAVE HEIGHT =    52.000    FT
MEAN WATER DEPTH =   111.600    FT
     WAVE PERIOD =    12.600    SEC
     WAVE LENGTH =   700.091    FT
   WAVE CELERITY =    55.560    FT/SEC
             D/L =    .159408
          LAMBDA =    .21047

BETA =      .00897
 CO2 =    24.521927
 A11 =    .84914537
 A13 =   -1.7037026
 A15 =   -3.4877995
 A22 =    .19496626
 A24 =   -.46358991E-01
 A33 =    .17172373E-01
 A35 =    .25103456
 A44 =   -.53759063E-02
 A55 =   -.17142762E-02
 B22 =    1.3653936
 B24 =    1.5427380
 B33 =    1.9242301
 B35 =    6.3303441
 B44 =    3.1063792
 B55 =    5.5047799
  C1 =    2.3059466
  C2 =    14.082869
  C3 =   -.13740661
  C4 =    .20555067

D1 TO D5    8.9671120     .94958605     .43967494E-01    -.23444274E-02    -.19668291E-03

E1 TO E5    23.451217     7.0765984     2.2954634        .67919129         .25331934
```

WAVE PROFILE TABLE

THETA=	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.
X(FT)=	0.0	19.4	38.9	58.3	77.8	97.2	116.7	136.1	155.6	175.0	194.5	213.9	233.4	252.8	272.3	291.7	311.2	330.6	350.0
DEPTH(FT)=	145.4	144.0	140.3	134.9	128.8	122.7	117.3	112.6	108.6	105.2	102.4	100.0	98.2	96.7	95.6	94.7	94.0	93.5	93.4

**** WAVE POSITION SUMMARY REPORT ****

LOAD CONDITION 1 — WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG. WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
1	-340.0	174.83	-49.1	-82.9	-96.4	3324.	-1950.	3854.	12.5
2	-330.0	169.69	-45.3	-75.8	-88.3	3029.	-1795.	3521.	14.2
3	-320.0	164.55	-40.7	-67.2	-78.6	2685.	-1605.	3128.	16.1
4	-310.0	159.41	-35.5	-58.0	-68.0	2313.	-1397.	2702.	17.9
5	-300.0	154.27	-29.7	-47.6	-56.1	1898.	-1158.	2223.	20.1
6	-290.0	149.12	-23.7	-36.3	-43.3	1436.	-917.	1704.	22.0
7	-280.0	143.98	-16.5	-23.8	-29.0	919.	-616.	1107.	24.1
8	-270.0	138.84	-9.1	-10.7	-14.0	368.	-301.	475.	26.1
9	-260.0	133.70	-1.0	3.4	3.6	-243.	43.	246.	27.9
10	-250.0	128.55	7.3	18.3	+19.7	-878.	408.	968.	29.9
11	-240.0	123.41	15.9	33.0	+36.6	-1561.	792.	1750.	34.1
12	-230.0	118.27	25.0	48.7	+54.8	-2307.	1219.	2610.	38.1
13	-220.0	113.13	34.1	64.9	+73.3	-3145.	1680.	3565.	41.1
14	-210.0	107.99	43.4	81.5	+92.3	-4053.	2149.	4588.	44.3
15	-200.0	102.84	52.7	97.8	+111.1	-5021.	2681.	5691.	47.8
16	-190.0	97.70	62.0	114.5	+130.2	-6062.	3224.	6866.	51.6
17	-180.0	92.56	71.5	132.1	+150.3	-7224.	3828.	8175.	55.4
18	-170.0	87.42	82.2	151.3	+172.2	-8549.	4540.	9680.	59.7
19	-160.0	82.28	94.4	174.3	+198.2	-10214.	5416.	11561.	66.2
20	-150.0	77.13	108.6	201.8	+229.2	-12277.	6465.	13876.	73.3
21	-140.0	71.99	125.5	233.3	+265.0	-14664.	7752.	16587.	79.2
22	-130.0	66.85	144.9	271.1	+307.4	-17618.	9227.	19888.	86.4
23	-120.0	61.71	167.9	315.2	+357.1	-21183.	11033.	23884.	97.0
24	-110.0	56.56	195.0	364.1	+413.1	-25193.	13260.	28470.	106.9
25	-100.0	51.42	223.7	414.8	+471.3	-29366.	15623.	33264.	108.2
26	-90.0	46.28	252.0	467.1	+530.7	-33739.	17925.	38205.	103.2
27	-80.0	41.14	281.0	520.4	+591.4	-38311.	20350.	43380.	94.6
28	-70.0	36.00	310.0	573.0	+651.5	-42988.	22852.	48684.	82.7
29	-60.0	30.85	338.1	623.4	+709.1	-47663.	25372.	53996.	67.5
30	-50.0	25.71	363.9	669.0	+761.5	-52114.	27805.	59067.	49.6
31	-40.0	20.57	386.1	706.9	+805.5	-56063.	30014.	63592.	29.2
32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

33	-20.0	10.28	412.7	746.3	+854.6	-[illegible]	33050.	69480.	-16.3

*** * * * W A V E   P O S I T I O N   S U M M A R Y   R E P O R T * * * ***

LOAD CONDITION 1   WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG,WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
34	-10.0	5.14	414.2	746.1	+853.4	-61570.	33532.	70109.	-39.4
35	0.0	-0.00	406.3	726.7	+832.6	-60371.	33140.	68869.	-61.9
36	10.0	-5.14	389.0	690.2	+792.3	-57495.	31845.	65726.	-83.0
37	20.0	-10.28	362.5	637.1	+733.0	-53025.	29664.	60759.	-102.1
38	30.0	-15.43	327.8	570.9	+658.3	-47317.	26733.	54347.	-117.8
39	40.0	-20.57	287.2	495.5	+572.7	-40820.	23263.	46984.	-130.1
40	50.0	-25.71	242.8	414.7	+480.6	-33939.	19500.	39143.	-139.0
41	60.0	-30.85	196.9	332.7	+386.6	-27114.	15677.	31320.	-144.3
42	70.0	-36.00	151.3	252.9	+294.7	-20649.	11995.	23880.	-146.1
43	80.0	-41.14	108.0	177.7	+208.0	-14757.	8601.	17081.	-145.0
44	90.0	-46.28	68.8	109.8	+129.6	-9570.	5620.	11098.	-140.6
45	100.0	-51.42	34.2	50.0	+60.6	-5145.	3098.	6006.	-134.5
46	110.0	-56.56	4.9	-1.7	5.2	-1383.	1040.	1731.	-122.3
47	120.0	-61.71	-20.2	-44.7	-49.1	1691.	-713.	1836.	-102.4
48	130.0	-66.85	-40.6	-77.1	-87.1	3902.	-2110.	4436.	-80.9
49	140.0	-71.99	-54.6	-99.6	-113.5	5340.	-2985.	6117.	-65.1
50	150.0	-77.13	-63.4	-113.4	-130.0	6142.	-3459.	7049.	-54.2
51	160.0	-82.28	-68.4	-121.3	-139.3	6533.	-3678.	7497.	-44.7
52	170.0	-87.42	-70.3	-123.8	-142.4	6589.	-3714.	7563.	-36.2
53	180.0	-92.56	-70.2	-123.4	-142.0	6462.	-3636.	7415.	-28.7
54	190.0	-97.70	-68.5	-120.7	-138.8	6192.	-3476.	7101.	-22.5
55	200.0	-102.84	-66.5	-117.2	-134.8	5890.	-3298.	6750.	-17.6
56	210.0	-107.99	-64.4	-113.5	-130.5	5540.	-3120.	6358.	-13.3
57	220.0	-113.13	-63.0	-109.7	-126.5	5153.	-2983.	5954.	-9.6
58	230.0	-118.27	-62.0	-108.3	-124.8	4986.	-2875.	5756.	-7.4
59	240.0	-123.41	-61.6	-107.8	-124.2	4866.	-2803.	5615.	-5.5
60	250.0	-128.55	-61.6	-107.7	-124.1	4772.	-2754.	5510.	-4.0
61	260.0	-133.70	-61.6	-107.7	-124.0	4695.	-2706.	5419.	-2.4
62	270.0	-138.84	-61.8	-107.8	-124.3	4633.	-2673.	5349.	-.9
63	280.0	-143.98	-61.8	-107.7	-124.2	4565.	-2634.	5270.	.3
64	290.0	-149.12	-61.7	-107.2	-123.7	4489.	-2598.	5187.	1.6
65	300.0	-154.27	-61.2	-106.1	-122.5	[illegible]	[illegible]	[illegible]	[illegible]

									1.6
65	300.0	-154.27	-61.2	-106.1	-122.5	4400.	-2551.	5086.	2.7
66	310 [illegible]	-159.41	-60.4	-104.4	120.6	[illegible]90.	-2490.	4960.	3.8

*** * * * W A V E   P O S I T I O N   S U M M A R Y   R E P O R T * * * ***

LOAD CONDITION 1 WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG.WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
67	320.0	-164.55	-59.1	-102.0	-117.9	4162.	-2413.	4811.	5.3
68	330.0	-169.69	-57.3	-98.6	-114.0	3997.	-2315.	4620.	7.0
69	340.0	-174.83	-55.3	-94.4	-109.4	3808.	-2225.	4410.	8.8

**** L O A D   S U M M A R Y   R E P O R T ****

WAVE NUMBER = 1   WAVE DIRECTION = 60.000

X SHEAR FORCE =	414.2120 KIPS
Y SHEAR FORCE =	746.1377 KIPS
RESULTANT SHEAR FORCE =	853.4009 KIPS
X MUDLINE MOMENT =	-61570.1077 FT-KIPS
Y MUDLINE MOMENT =	33531.6468 FT-KIPS
RESULTANT MUDLINE MOMENT =	70108.8404 FT-KIPS
Z VERTICAL FORCE =	-39.4163 KIPS

6000 REMOTE BATCH

UNITED COMPUTING 67, APEX/SL 8.6.0

15.11.13.   07/19/76.

PUYZEYP

57 FT WAVE HEIGHT

13.2 SEC WAVE PERIOD

4.3 FPS SURFACE CURRENT
(2.5 knot)

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                    ******************************************************
                    *                                                    *
                    *                    SEALOAD-2                       *          PAGE    1
                    *                                                    *
                    *      DEVELOPED BY SYNERCOM TECHNOLOGY, INC.        *
                    *               HOUSTON, TEXAS                       *
                    *             RELEASE 2  MOD 12                      *
                    *                 JULY 1976                          *
                    *                                                    *
                    ******************************************************

                   1    1    2    2    3    3    4    4    5    5    6    6    7    7    8
LINE NO. 1...5....0....5....0....5....0....5....0....5....0....5....0....5....0....5....0

      1  COEF     12.    0.74          1.34
      2           24.    0.74          1.34
      3           36.    0.74          1.34
      4           48.    0.74          1.34
      5           72.    0.74          1.34
      6  END     144.0   0.74          1.34
      7  VCUR               1.0        0.4
      8                    11.2         .8
      9                    22.4        1.1
     10                    33.7        1.2
     11                    44.9        1.4
     12                    56.1        1.7
     13                    67.3        1.8
     14                    78.5        2.0
     15                    89.8        2.1
     16                   101.0        2.4
     17  END              112.2        2.5
     18  U.S. NAVY - ACMR STRUCTURES  -- MLW 105 FT
     19                          57 FT WAVE HEIGHT
     20                            C. CHERN
     21                                 JULY, 1976
     22                                 27-771-01
     23  STRAN    I 600360360100I1                 DF  1    00  1  570  11220 132  3 11
     24  END
```

**** C O E F F I C I E N T   T A B L E   R E P O R T ****

DIAMETER IN	NORMAL DRAG COEF	TANG DRAG COEF	MASS COEF
12.000	.7400	-0.0000	1.3400
24.000	.7400	-0.0000	1.3400
36.000	.7400	-0.0000	1.3400
48.000	.7400	-0.0000	1.3400
72.000	.7400	-0.0000	1.3400
144.000	.7400	-0.0000	1.3400

U.S. NAVY - ACMR STRUCTURES -- MLW 105 FT

57 FT WAVE HEIGHT

C. CHERN

JULY, 1976

27-771-01

INPUT UNITS
....ENGLISH

OUTPUT UNITS
....ENGLISH

**** S T O K E S   W A V E   C O N S T A N T S   R E P O R T ****

```
        WAVE HEIGHT =    57.000    FT
   MEAN WATER DEPTH =   112.200    FT
        WAVE PERIOD =    13.200    SEC
        WAVE LENGTH =   755.890    FT
      WAVE CELERITY =    57.262    FT/SEC
                D/L =   .148434
             LAMBDA =   .20843

       BETA =       .00831
        CU2 =    23.542731
        A11 =    .93123023
        A13 =   -2.2176312
        A15 =   -4.6633405
        A22 =    .26200677
        A24 =   -.34206241
        A33 =   .41631941E-01
        A35 =    .35083528
        A44 =   -.80506281E-02
        A55 =   -.54225466E-02
        B22 =    1.5719553
        B24 =    1.2865437
        B33 =    2.4717313
        B35 =    6.9977525
        B44 =    4.3667914
        B55 =    8.4723560
         C1 =    2.7132101
         C2 =    21.094594
         C3 =   -.15865725
         C4 =    .26698187

     D1 TO D5    9.8594854    1.3291460    .88469563E-01    -.34803876E-02    -.61075395E-03

     E1 TO E5    25.075211    8.5079400    3.0238185        .99152762         .40097056
```

WAVE PROFILE TABLE

THETA=	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.
X(FT)=	0.0	21.0	42.0	63.0	84.0	105.0	126.0	147.0	168.0	189.0	210.0	231.0	252.0	273.0	294.0	315.0	336.0	356.9	377.9
DEPTH(FT)=	150.2	148.5	143.9	137.3	130.1	123.2	117.2	112.2	108.1	104.7	101.8	99.5	97.7	96.4	95.4	94.6	93.9	93.4	93.2

*** * * * WAVE POSITION SUMMARY REPORT * * * ***

LOAD CONDITION 1 WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG.WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
1	-360.0	171.45	-50.4	-85.3	− 99.1	3306.	-1940.	3833.	11.6
2	-350.0	166.69	-46.9	-78.5	−91.4	3033.	-1801.	3528.	13.3
3	-340.0	161.93	-42.4	-70.7	− 82.4	2728.	-1621.	3173.	14.7
4	-330.0	157.17	-37.7	-61.9	−72.5	2384.	-1428.	2779.	16.4
5	-320.0	152.40	-32.2	-52.4	− 61.5	2010.	-1218.	2350.	17.9
6	-310.0	147.64	-26.5	-42.0	− 49.7	1603.	-985.	1882.	19.9
7	-300.0	142.68	-20.3	-30.8	− 36.9	1159.	-737.	1374.	21.7
8	-290.0	138.12	-13.5	-18.2	− 22.6	638.	-459.	786.	23.7
9	-280.0	133.35	-6.0	-5.5	− 8.1	112.	-145.	183.	25.5
10	-270.0	128.59	1.7	8.1	+ 8.2	-455.	176.	488.	27.6
11	-260.0	123.83	10.0	22.8	+ 24.9	-1084.	526.	1205.	29.4
12	-250.0	119.06	18.2	37.2	+ 41.4	-1746.	898.	1964.	33.9
13	-240.0	114.30	27.3	52.5	+ 59.2	-2465.	1319.	2796.	37.9
14	-230.0	109.54	36.4	68.2	+ 77.3	-3279.	1752.	3718.	41.2
15	-220.0	104.78	45.4	84.8	+ 96.2	-4169.	2226.	4726.	44.8
16	-210.0	100.01	54.6	101.2	+ 115.0	-5135.	2745.	5823.	48.9
17	-200.0	95.25	64.0	118.4	+ 134.6	-6193.	3295.	7015.	53.3
18	-190.0	90.49	74.1	136.9	+ 155.6	-7389.	3913.	8361.	58.2
19	-180.0	85.73	85.3	157.4	+ 179.0	-8774.	4649.	9929.	63.2
20	-170.0	80.96	98.4	182.0	+ 206.9	-10516.	5575.	11902.	71.0
21	-160.0	76.20	113.8	211.9	+ 240.5	-12704.	6682.	14354.	79.5
22	-150.0	71.44	132.3	246.5	+ 279.8	-15251.	8051.	17245.	87.0
23	-140.0	66.68	153.8	288.0	+ 326.5	-18411.	9645.	20784.	96.2
24	-130.0	61.91	179.1	336.9	+ 381.5	-22243.	11573.	25074.	109.3
25	-120.0	57.15	209.4	392.2	+ 444.6	-26669.	13978.	30110.	122.7
26	-110.0	52.39	242.4	450.7	+ 511.8	-31362.	16640.	35503.	127.9
27	-100.0	47.63	275.3	512.0	+ 581.3	-36361.	19251.	41143.	125.5
28	-90.0	42.86	310.2	576.5	+ 654.7	-41748.	22085.	47229.	119.4
29	-80.0	38.10	346.1	642.3	+ 729.6	-47424.	25092.	53653.	109.5
30	-70.0	33.34	382.3	708.0	+ 804.6	-53337.	28238.	60351.	95.9

32	-50.[illegible]	23.81	450.2	[illegible]	[illegible]43.7	-55046.	34557.	73652.	57.8
33	-40.[illegible]	19.05	478.5	878.5	+1000.4	-[illegible]26.	37431.	79579.	38.7

*** * * * W A V E   P O S I T I O N   S U M M A R Y   R E P O R T * * * ***

LOAD CONDITION 1 WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG. WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
34	-30.0	14.29	500.7	915.2	+1043.2	-74432.	39843.	84425.	9.1
35	-20.0	9.53	514.7	937.9	+1069.9	-77523.	41572.	87966.	-17.7
36	-10.0	4.76	518.8	949.0	+1081.5	-79905.	42380.	90448.	-46.1
37	0.0	-0.00	518.2	929.2	+1063.9	-78732.	43099.	89757.	-72.2
38	10.0	-4.76	502.7	883.4	+1016.4	-74716.	42180.	85799.	-96.8
39	20.0	-9.53	465.0	818.4	+941.2	-68786.	38499.	78827.	-117.9
40	30.0	-14.29	423.7	740.6	+853.2	-61770.	34768.	70883.	-135.5
41	40.0	-19.05	376.3	651.6	+752.4	-53822.	30590.	61907.	-149.9
42	50.0	-23.81	324.0	555.4	+643.0	-45357.	26011.	52286.	-160.1
43	60.0	-28.58	269.1	457.2	+530.6	-36929.	21320.	42641.	-166.3
44	70.0	-33.34	214.7	361.0	+420.0	-28937.	16797.	33459.	-168.5
45	80.0	-38.10	162.6	270.2	+315.4	-21633.	12603.	25036.	-167.2
46	90.0	-42.86	114.4	187.0	+219.2	-15174.	8861.	17571.	-162.6
47	100.0	-47.63	71.3	113.3	+133.9	-9616.	5658.	11157.	-155.4
48	110.0	-52.39	34.5	49.4	+60.3	-4969.	3014.	5811.	-146.3
49	120.0	-57.15	3.6	-4.9	-6.1	-1081.	889.	1399.	-130.2
50	130.0	-61.91	-22.7	-49.1	-54.1	2006.	-913.	2204.	-106.9
51	140.0	-66.68	-43.4	-81.7	-92.5	4176.	-2287.	4761.	-83.0
52	150.0	-71.44	-57.3	-104.3	-119.0	5567.	-3121.	6382.	-66.6
53	160.0	-76.20	-66.1	-117.8	-135.1	6316.	-3569.	7255.	-54.8
54	170.0	-80.96	-70.8	-125.3	-143.9	6672.	-3766.	7661.	-44.3
55	180.0	-85.73	-72.5	-127.2	-146.4	6682.	-3784.	7680.	-35.5
56	190.0	-90.49	-71.9	-126.0	-145.0	6513.	-3682.	7481.	-27.7
57	200.0	-95.25	-69.8	-122.6	-141.0	6208.	-3498.	7125.	-21.4
58	210.0	-100.01	-67.4	-118.6	-136.4	5879.	-3302.	6743.	-16.4
59	220.0	-104.78	-64.9	-114.5	-131.6	5530.	-3105.	6342.	-12.5
60	230.0	-109.54	-63.3	-110.8	-127.6	5165.	-2959.	5953.	-9.3
61	240.0	-114.30	-62.1	-108.4	-124.9	4915.	-2839.	5677.	-6.9
62	250.0	-119.06	-61.7	-107.7	-124.1	4789.	-2763.	5529.	-5.5
63	260.0	-123.83	-61.6	-107.6	-124.0	4697.	-2713.	5424.	-4.2
64	270.0	-128.59	-61.9	-108.1	-124.6	4641.	-2676.	5357.	-3.1

65	280.	-133.35	-62.2	-106.7	125.3	4593.	-2652.	5304.	-2.0
66	290.	-138.12	-62.6	-109.2	125.9	[illegible]54.	-2627.	5257.	-.8

*** * * * WAVE POSITION SUMMARY REPORT * * * ***

LOAD CONDITION 1

WAVE ANGLE = 60.00

TRIAL NO.	DIST. TO CREST FT	PHASE ANG,WAVE-TO-STRUC. (DEG)	SHEAR KIPS X	SHEAR KIPS Y	SHEAR KIPS RSLNT	MUDLINE MOMENT FT-KIPS X	MUDLINE MOMENT FT-KIPS Y	MUDLINE MOMENT FT-KIPS RSLNT	VERTICAL FORCE KIPS Z
67	300.0	-142.88	-62.9	-109.8	-126.5	4523.	-2609.	5221.	.1
68	310.0	-147.64	-63.1	-109.9	-126.7	4481.	-2587.	5175.	1.1
69	320.0	-152.40	-63.1	-109.6	-126.5	4426.	-2562.	5114.	2.0
70	330.0	-157.17	-62.8	-108.8	-125.7	4357.	-2520.	5033.	2.6
71	340.0	-161.93	-62.1	-107.5	-124.1	4273.	-2472.	4937.	3.4
72	350.0	-166.69	-61.1	-105.3	-121.7	4157.	-2412.	4806.	4.7
73	360.0	-171.45	-59.6	-102.4	-118.5	4020.	-2337.	4650.	6.1

**** L O A D   S U M M A R Y   R E P O R T ****

WAVE NUMBER = 1 WAVE DIRECTION = 60.000

X SHEAR FORCE =	518.7518	KIPS
Y SHEAR FORCE =	949.0100	KIPS
RESULTANT SHEAR FORCE =	1081.5375	KIPS
X MUDLINE MOMENT =	-79905.1935	FT-KIPS
Y MUDLINE MOMENT =	42379.7094	FT-KIPS
RESULTANT MUDLINE MOMENT =	90448.2157	FT-KIPS
Z VERTICAL FORCE =	-46.0527	KIPS

DTIC

END

4-86